

# DEPARTMENT OF THE ARMY U.S. ARMY CORPS OF ENGINEERS BOISE REGULATORY OFFICE 720 EAST PARK BOULEVARD, SUITE 245 BOISE, IDAHO 83712-7757

March 9, 2021

Regulatory Division

SUBJECT: NWW-2004-0600046, US-95 Thorn Creek Road to Moscow, KN 09294

Mr. Doral Hoff Idaho Transportation Department, District 2 Post Office Box 837 Lewiston Id, 83843

Dear Mr. Hoff:

We have determined that the single and complete linear projects as proposed in your "US-95 Thorn Creek Road to Moscow" application dated September 29, 2020 are authorized in accordance with Department of Army (DA) Nationwide Permit (NWP) No. 14: Linear Transportation Projects. Table 1 below provides the location of the 13 single and complete linear projects. The project sites are located between mile post 337.67 and 344 of US-95. The project is located within Sections 5, 7, 8, 17, 18 of Township 38 North, Range 5 West, and Sections 19, 20, 29, 32 of Township 39 North, Range 5 West, with the center point of the alignment near latitude 46.676464° N and longitude -116.993836° W, in Latah County, near Moscow, Idaho. Please refer to File Number NWW-2004-0600046 in all future correspondence with our office regarding these projects.

The proposed project activities, impact areas, and quantities of native topsoil and rock fill placed below the ordinary high-water mark and in wetlands are listed in Tables 1, 2, and 3 of Appendix A, dated January 26, 2021. All work shall be completed in accordance to the attached drawings titled: *US-95, Thorncreek Road to Moscow, Latah County ITD Project No. DHP-NH-4110(156); Key No. 09294, sheets 1 through 34, dated August 2020.* 

Table 1: US-95 Thorn Creek to Moscow single and complete project locations

NWP 14	_	Separate and complete project center	
Site Number	Impacted Aquatic Resources	Latitude	Longitude
1	Tributary P, Thorn Creek, Wetland B1, Wetland 23A, Wetland 23B	46.637119°	-117.000354°
2	Tributary Q	46.649205°	-117.003647°
3	Wetland C1	46.650135°	-117.003372°
4	Tributary U, Wetland 29A	46.657080°	-116.997250°
5	Tributary U, Wetland 29B	46.657877°	-116.997018°
6	Tributary U	46.662655°	-116.996228°
7	Tributary V	46.666445°	-116.995536°
8	Tributary W	46.668182°	-116.995308°
9	Tributary W	46.676541°	-116.993765°
10	Tributary X	46.682649°	-116.993516°
11	Wetland 35B	46.683185°	-116.992663°
12	Wetland 35A	46.684810°	-116.992364°
13	Tributary AA, Wetland 40B	46.694887°	-116.993918°

#### **AUTHORITY**

DA permit authorization is necessary because your project would involve the discharge of dredged and/or fill material into Waters of the U.S., including wetlands. This authorization is outlined in Section 404 of the Clean Water Act (33 U.S.C. 1344).

#### PERMIT CONDITIONS

You must comply with all regional, general, and special conditions for this verification letter to remain valid and to avoid possible enforcement actions. The regional and general permit conditions for *NWP No. 14: Linear Transportation Projects* are available

online at <a href="http://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/Nationwide-Permits/">http://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/Nationwide-Permits/</a>. If you would prefer a hard copy of the regional and general conditions, please notify us and we will provide you a copy. In addition, you must also comply with the special conditions listed below.

The following Special Conditions include:

- a. Permittee shall re-establish the surface water connection within Tributary P, Thorn Creek, and Tributary W (near station 181+31) prior to or concurrent with project impacts as described in sheet 8 and sheet 27 of the project drawings titled Thorn Cr. Rd. to Moscow, PH. 1, Latah, County, dated August 2020. Permittee shall notify the Corps Boise Regulatory Office in writing once the surface water connection is reestablished. Special condition (a.) is applicable to sites 1 and 8.
- b. Permittee shall submit proof of purchase for credits from the Valencia Wetland Trust Mitigation Bank located in Priest River, Idaho. Credit requirements for the separate and complete sites are listed in Table 3 of Appendix A. The proof of purchase shall be submitted to the Corps prior to starting work in waters of the U.S., including wetlands. Special condition (b.) is applicable to sites 1, 4, 8, 11, 12 and 13.
- c. Permittee shall demarcate all wetland boundaries with flagging or fencing prior to construction. No fill material shall be placed in wetlands unless the wetland fill is specifically authorized and shown on the permit drawings. Special condition (c.) is applicable to sites 1, 3, 4, 5, 11, 12, and 13.
- d. Permittee shall conduct work in the dry during low water conditions to reduce impacts to waters of the United States. Special condition (d.) is applicable to sites 1, 2, 4, 5, 6, 7, 8, 9, 10, and 13.
- e. This Corps verification does not authorize you to take an endangered species, in particular Spalding's Catchfly (*Silene spaldingii*). In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA); e.g. an ESA Section 10 permit or Biological Opinion (BO) under ESA Section 7, with "incidental take" provisions with which you must comply.
  - The U.S. Fish and Wildlife Service (USFWS) in their April 12, 2007 Letter of Concurrence agrees and reconfirmed on December 21, 2020 that the potential impacts of your project are not likely to adversely affect the listed species or their designated critical habitat.

Your authorization under this Corps Nationwide verification is conditional upon your compliance with the special conditions in this permit and following the construction procedures described in your application and Biological Assessment (BA).

Failure to comply with these conditions or variance of the construction procedures that result in a take of listed species under the ESA, would constitute an unauthorized take and non-compliance with your Corps permit. To ensure ESA compliance, any changes or deviation from your permit or the action as described in our BA may necessitate re-initiation of consultation with the USFWS. Special condition (e.) is applicable to all 13 project location sites.

f. The permittee is responsible for all work done by any contractor. Permittee shall ensure any contractor who performs the work is informed of and follows all the terms and conditions of this authorization, including any Special Conditions listed above. Permittee shall also ensure these terms and conditions are incorporated into engineering plans and contract specifications. Special condition (f.) is applicable to all 13 project location sites.

#### WATER QUALITY CERTIFICATION

You must also comply with the conditions detailed in the Section 401 Water Quality Certification (WQC) issued by the Idaho Department of Environmental Quality (IDEQ) on March 3, 2017 for NWP 14 sites 2, 5, 6, 7, 9, & 10. For your review, a copy of this 401 WQC is available on the IDEQ's website at:

http://www.deq.idaho.gov/media/60179758/nationwide-permits-2017-401-certification-0317.pdf. If you have any questions regarding the conditions set forth in the Water Quality Certification, please contact IDEQ directly at 208-799-4370, Lewiston Regional Office

You must also comply with the conditions detailed in the Section 401 Water Quality Certification (WQC) issued for NWP 14 sites 1, 3, 4, 8, & 11-13 on April 3, 2018, by the Idaho Department of Environmental Quality (IDEQ). If you have any questions regarding the water quality certificate and/or the conditions set forth, please contact IDEQ at (208) 553-6831.

#### PRELIMINARY JURISDICTIONAL DETERMINATION

Attached to this verification are two copies of the Preliminary Jurisdictional Determination (PJD) form showing that Waters of the United States, including wetlands, may be located within your project area. **Please sign both copies and return one to the Corps at the address in the letterhead above**. The other copy is for your records.

The Preliminary Jurisdictional Determination is a non-binding action and shall remain in effect, unless a request for an Approved Jurisdictional Determination or new

information supporting a revision is provided to this office. Please note that since this Jurisdictional Determination is preliminary, it is subject to change and therefore is not an appealable action under the Corps of Engineers Administrative Appeal Procedures (33 CFR 331). Enclosed you will find a *Notification of Administrative Appeal Options and Process and Request for Appeal* (RFA) *Form* for further clarification.

#### **COMPLIANCE CERTIFICATION**

Further, Nationwide Permit General Condition 30 (*Compliance Certification*) requires that every permittee who has received NWP verification must submit a signed certification regarding the completed work and any required mitigation. The enclosed Compliance Certification form is enclosed for your convenience and must be completed and returned to us.

#### LIMITATIONS OF THIS VERIFICATION

This letter of authorization does not convey any property rights, or any exclusive privileges and does not authorize any injury to property or excuse you from compliance with other Federal, State, or local statutes, ordinances, regulations, or requirements which may affect this work.

### **EXPIRATION OF THIS VERIFICATION**

This verification is valid until **March 18, 2022**, unless the NWP is modified, suspended or revoked. If your project, as permitted under this NWP verification is changed and/or modified, you must contact our office prior to commencing any work activities. In the event you have not completed construction of your project by March 18, 2022, please contact us at least 60-days prior to this date. A new application and verification may be required.

### **CUSTOMER SERVICE**

We actively use feedback to improve our delivery and provide you with the best possible service. Please take our online customer service survey to tell us how we are doing. Follow this link to take the survey: <a href="http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey">http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey</a>. If you have questions or if you would like a paper copy of the survey, call our office at 208-433-4464. For more information about the Walla Walla District Regulatory program, visit us online at <a href="http://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/">http://www.nww.usace.army.mil/Business-With-Us/Regulatory-Division/</a>.

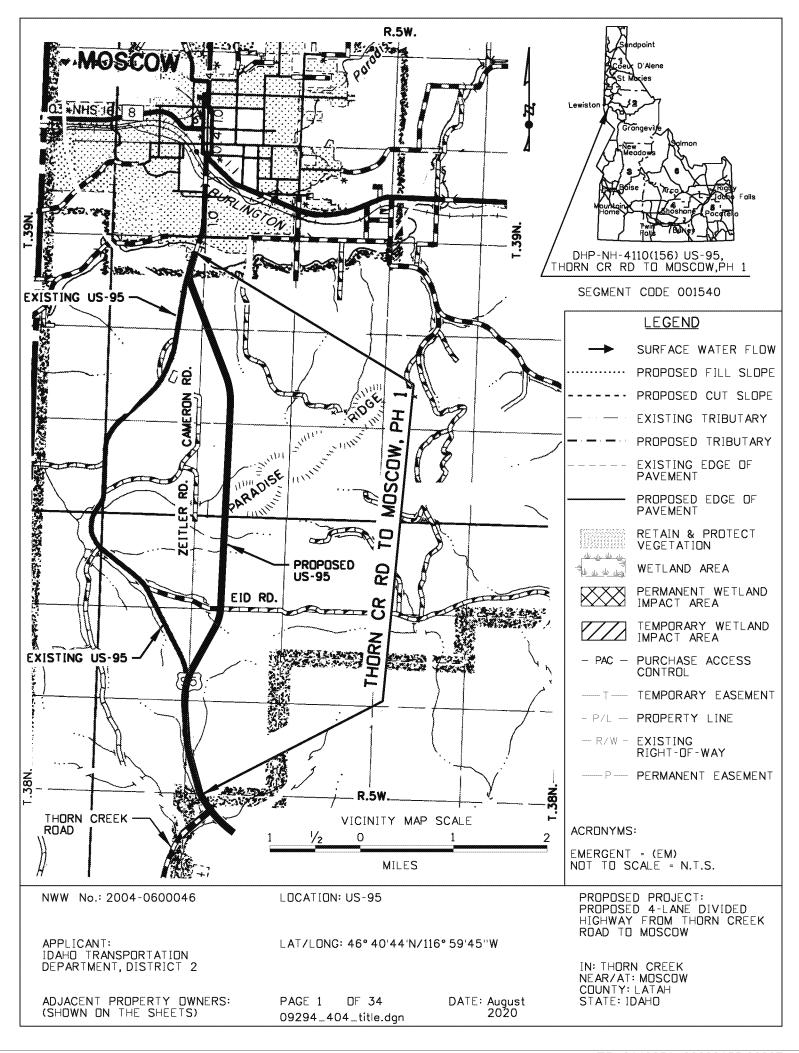
If you have any questions or need additional information about this permit, you can contact Shane Skaar at (208) 433-4478, by mail at the address in the letterhead, or email at shane.k.skaar@usace.army.mil. For informational purposes, a copy of this letter will be sent to Mr. Shawn Smith of the Idaho Transportation Department (ITD), Mr. Ken Helm of the ITD, Ms. Aimee Hill of the ITD, Mr. Brent Inghram of the Federal Highways Administration, Ms. Sujata Connell of the Idaho Department of Environmental Quality, Mr. Zach Swearingen of the Idaho Department of Fish and Game, Ms. Cara Christofferson of the U.S. Fish and Wildlife Service, and Ms. Ashley Brown of the Idaho State Historic Preservation Office.

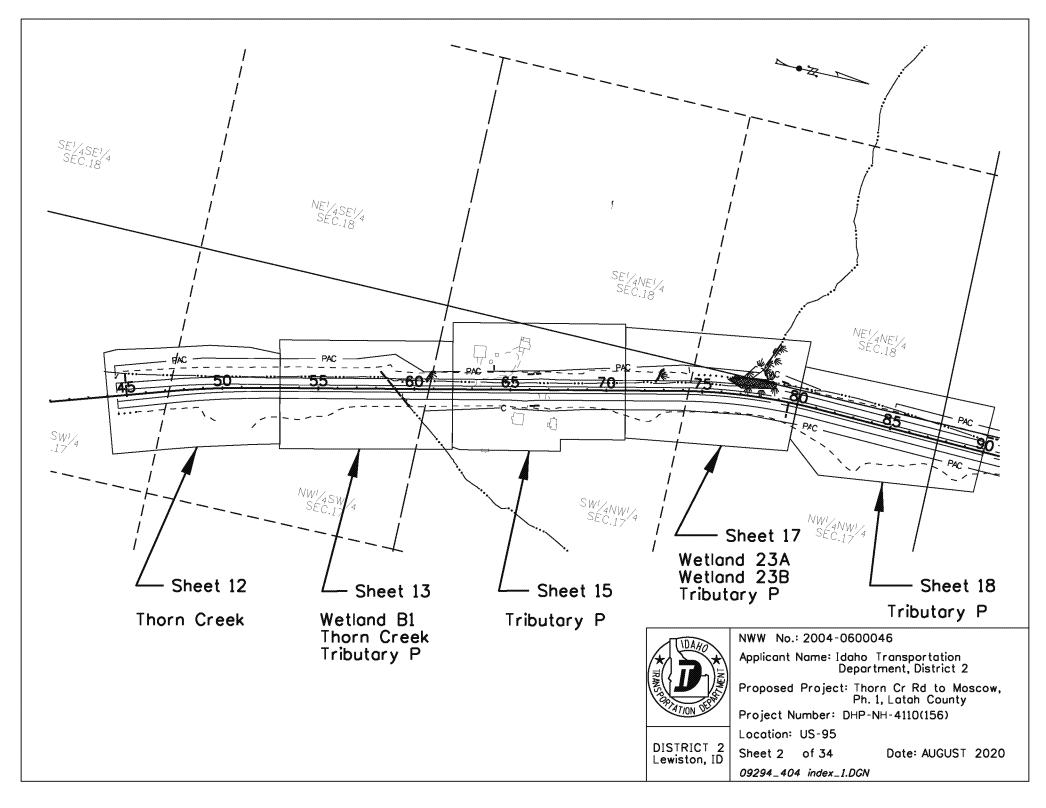
Sincerely,
Helly J. Urbanit

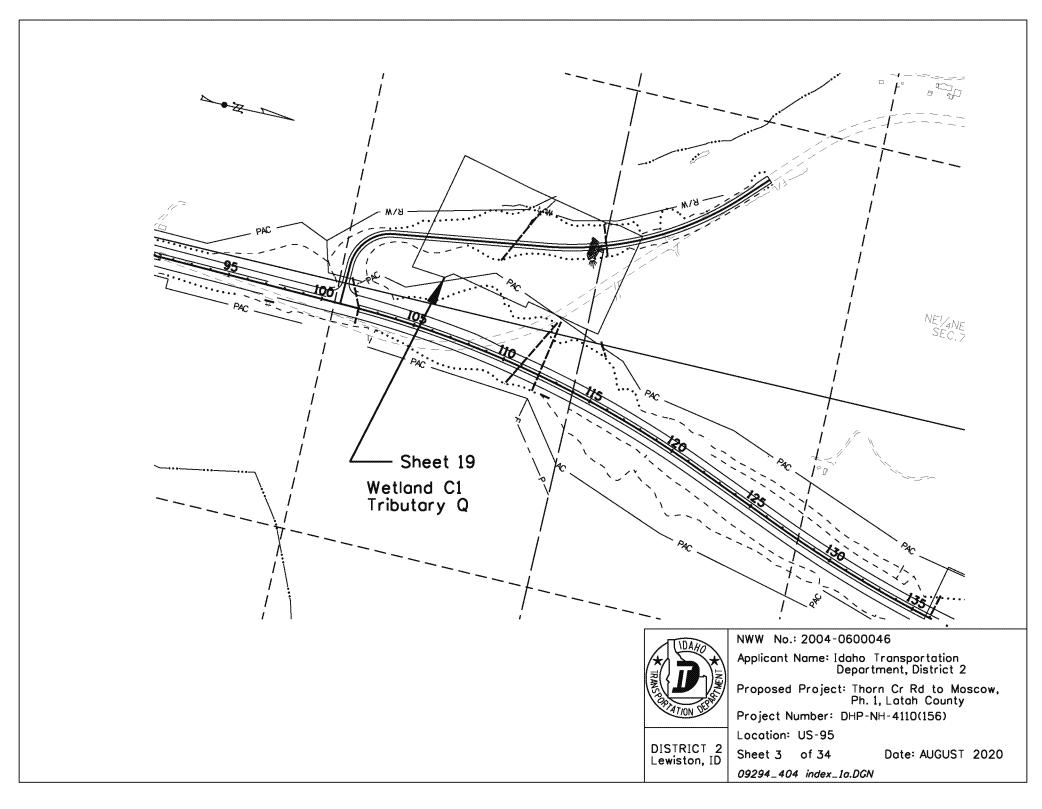
Kelly J. Urbanek, Chief Regulatory Division

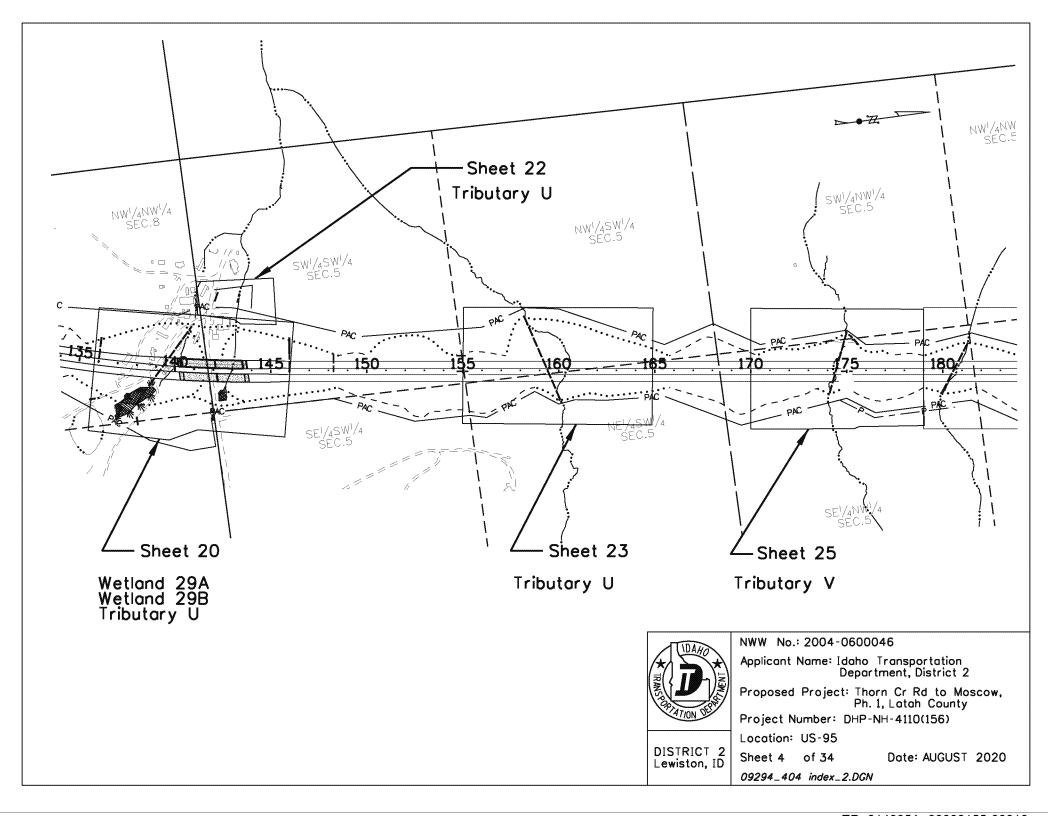
#### **Enclosures**

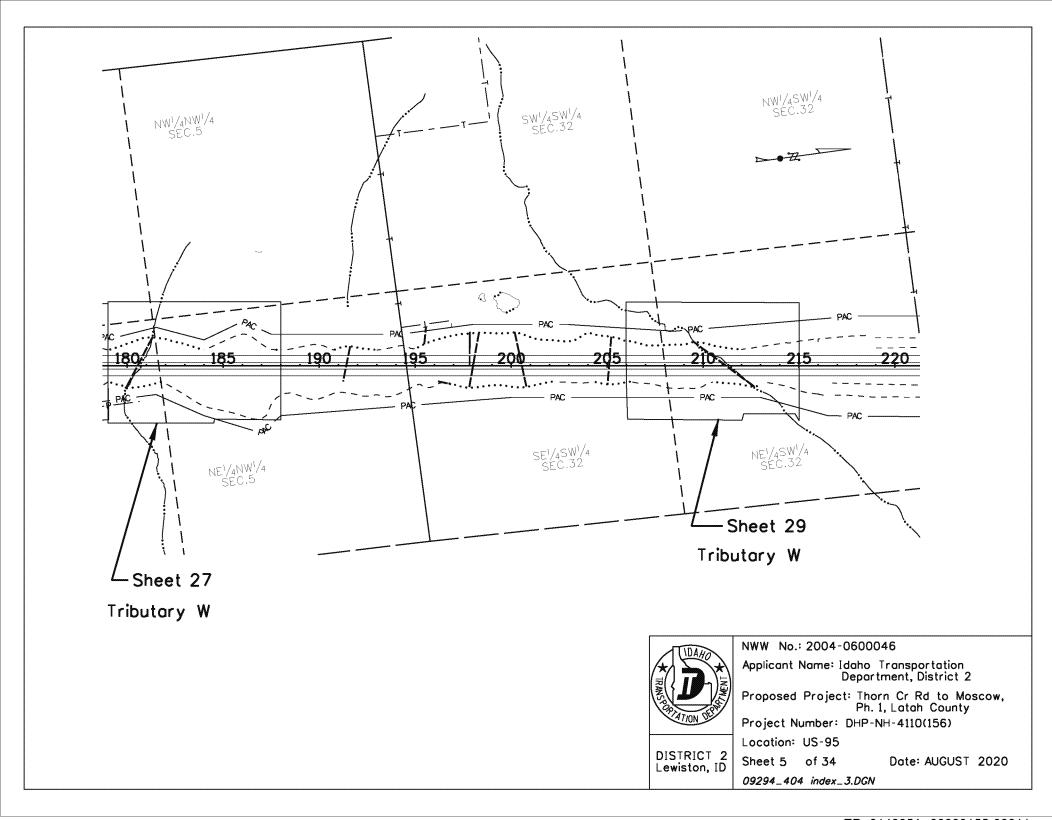
- 1. Appendix A: Permitting tables 1-3, dated January 26, 2021
- 2. Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report for Areas within the US-95 E-2 Alignment, (KN09294), dated September 22, 2020
- 3. Thorn Creek Road to Moscow Wetland Delineation of South Connector associated with the US-95 E-2 Alignment, (KN09294), dated September 21, 2020
- 4. Thorn Creek to Moscow Ordinary-High-Water-Mark Delineation, (KN09294), dated September 28, 2020
- 5. Request for Corps Jurisdictional Determination, Appendix 1, dated September 28, 2020
- 6. Preliminary Jurisdictional Determination Review area map, dated September 28, 2020
- 7. Preliminary Jurisdictional Determination Form
- 8. Notification of Administrative Appeal Options and Request for Appeal Form
- 9. Transfer of Nationwide Permit Form

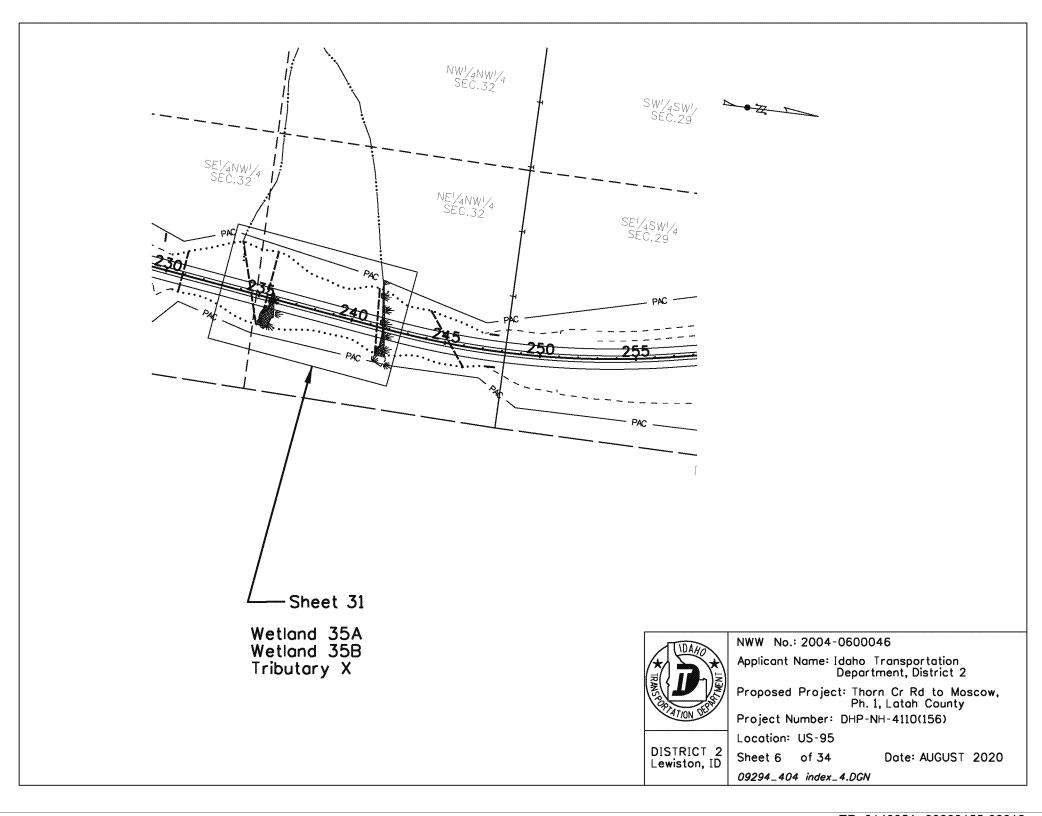


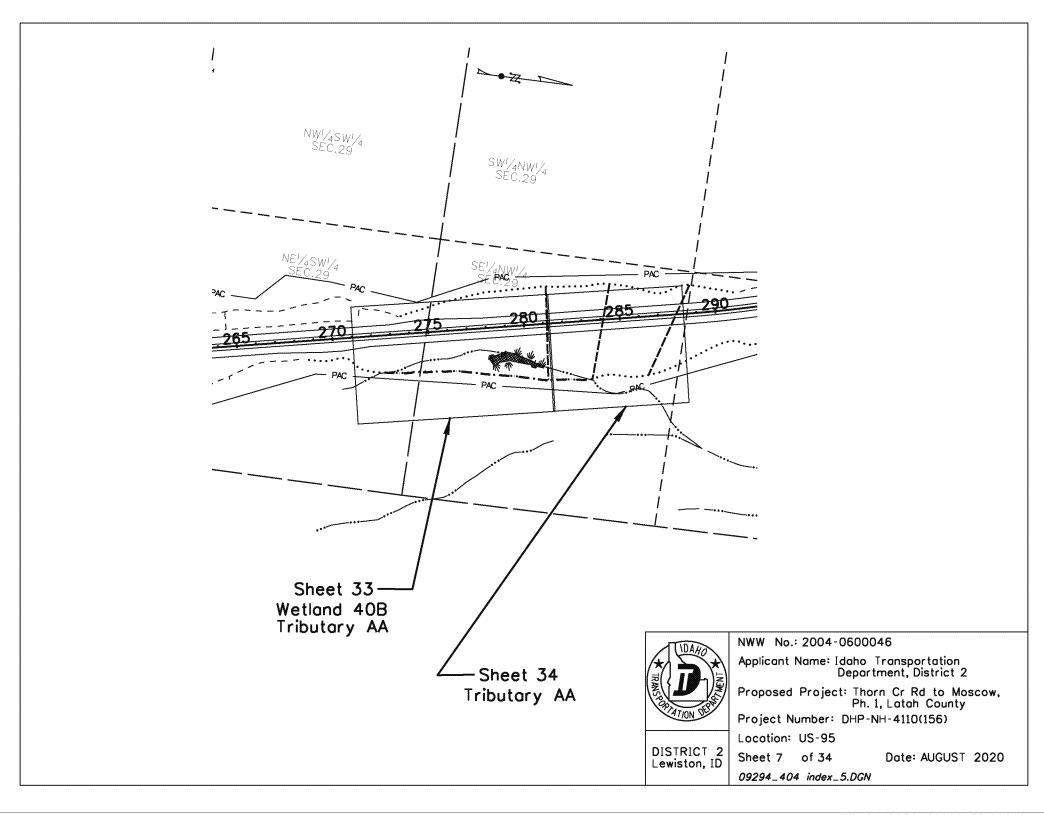






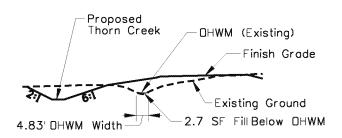


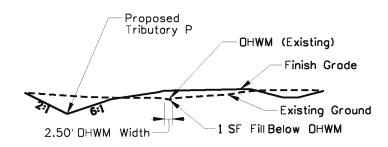




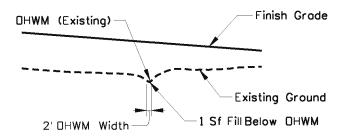
TRIBUTARY TYPICALS N.T.S.

THORN CREEK - IMPACT TABLE STATION 44+65 TO 59+38 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	1,574 FT
Tributary Replacement Length	1,358 FT
Tributary Fill Below DHWM	157 CY
Tributary DHWM Area	0.175 AC (7,602 SF)





TRIBUTARY P - IMPACT TABLE STATION 59+35 TO 89+75 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	2,466 FT
Tributary Replacement Length	2,531
Tributary Fill Below DHWM	91 CY
Tributary OHWM Area	0.142 AC (6,165 SF)



TRIBUTARY Q - IMPACT TABLE (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
	150 FT
Tributary Replacement Length	O FT
Tributary Fill Below OHWM	6 CY
Tributary OHWM Area	0.007 AC (300 SF)



NWW No.: 2004-0600046

Applicant Name: Idaho Transportation Department, District 2

Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

Project Number: DHP-NH-4110(156)

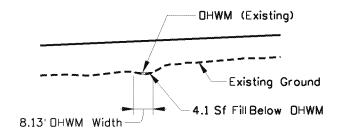
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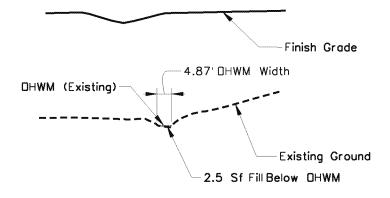
Sheet 8 of 34 Date: AUGUST 2020

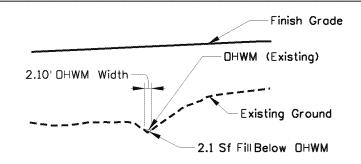
TRIBUTARY U - IMPACT TABLE STATION 138+86 TO 140+80 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
(Does NDT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	376 FT
Tributary Replacement Length	O FT
Tributary Fill Below OHWM	35 CY
Tributary DHWM Area	0.042 AC (1,831 SF)



TRIBUTARY U - IMPACT TABLE EID ROAD APPROACH (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	41 FT
Tributary Replacement Length	O FT
Tributary Fill Below OHWM	6 CY
Tributary DHWM Area	0.008 AC (333 SF)







TRIBUTARY U - IMPACT TABLE STATION 158+19 TO 160+62 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	611 FT
Tributary Replacement Length	O FT
Tributary Fill Below OHWM	48 CY
Tributary OHWM Area	0.029 AC (1,283 SF)

8.13' OHWM Width	Finish Grade
OHWM (Existing)	Existing Ground
	6.8 Sf Fill Below OHWM

TRIBUTARY U - IMPACT TABLE STATION 142+63 TO 143+14 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	318 FT
Tributary Replacement Length	341 FT
Tributary Fill Below DHWM	80 CY
Tributary DHWM Area	0.059 AC (2,585 SF)



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Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

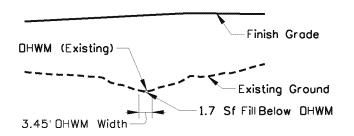
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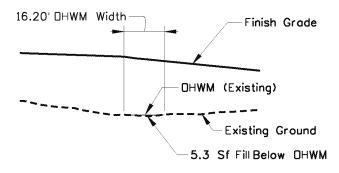
Location: US-95

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## TRIBUTARY TYPICALS N.T.S.

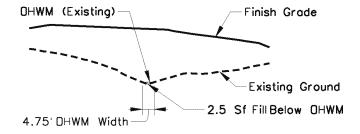
TRIBUTARY V - IMPACT TABLE STATION 174+08 TO 174+97 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	<b>317</b> FT
Tributary Replacement Length	O FT
Tributary Fill Below OHWM	20 CY
Tributary OHWM Area	0.025 AC (1,094 SF)





MPACT TABLE	
STATION 179+91 TO 181+31	
osed Pipe Culvert Lengths)	
315 FT	
O FT	
62 CY	
0.117 AC (5,103 SF)	

TRIBUTARY W - IMPACT TABLE STATION 209+52 TO 212+59 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	395 FT
Tributary Replacement Length	0 FT
Tributary Fill Below OHWM	32 CY
Tributary DHWM Area	0.043 AC (1,876 SF)





Lewiston, ID

NWW No.: 2004-0600046

Applicant Name: Idaho Transportation Department, District 2

Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

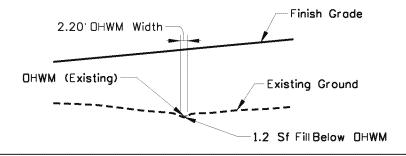
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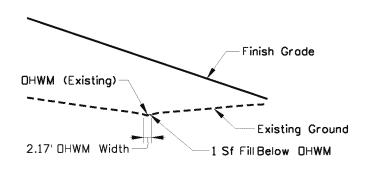
Location: US-95 DISTRICT 2

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# TRIBUTARY TYPICALS N.T.S.

TRIBUTARY X - IMPACT TABLE STATION 233+51 TO 233+76 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	102 FT
Tributary Replacement Length	O FT
Tributary Fill Below DHWM	4 CY
Tributary OHWM Area	0.005 AC (224 SF)





TRIBUTARY AA - IMPACT TABLE STATION 272+66 TD 281+03 (Does NOT include Existing or Proposed Pipe Culvert Lengths)	
Tributary Impact Length	1,110 FT
Tributary Replacement Length	1,076 FT
Tributary Fill Below OHWM	41 CY
Tributary OHWM Area	0.055 AC (2,409 SF)



NWW No.: 2004-0600046

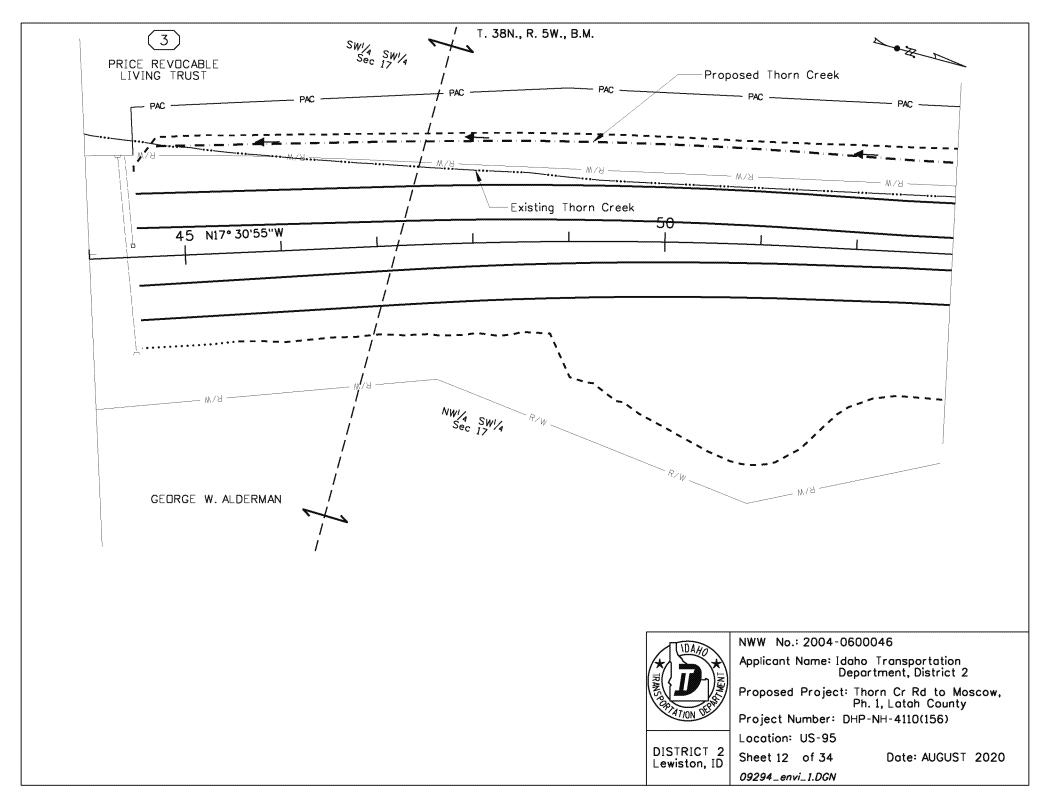
Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

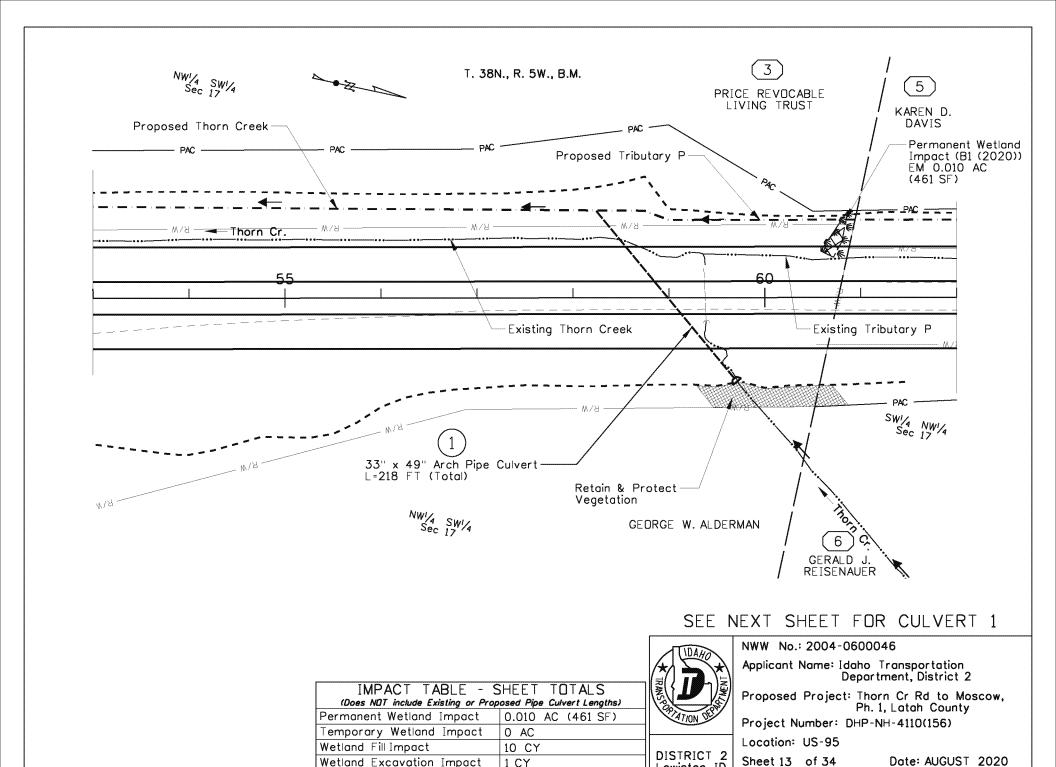
Applicant Name: Idaho Transportation Department, District 2

Project Number: DHP-NH-4110(156)

Location: US-95 DISTRICT 2 Lewiston, ID

Sheet 11 of 34 Date: AUGUST 2020



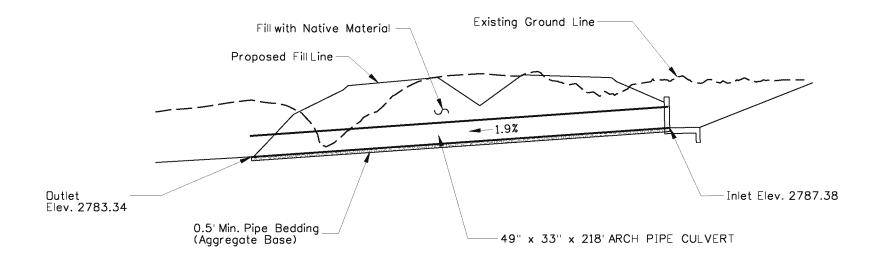


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Lewiston, ID

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NWW No.: 2004-0600046

Applicant Name: Idaho Transportation Department, District 2

Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

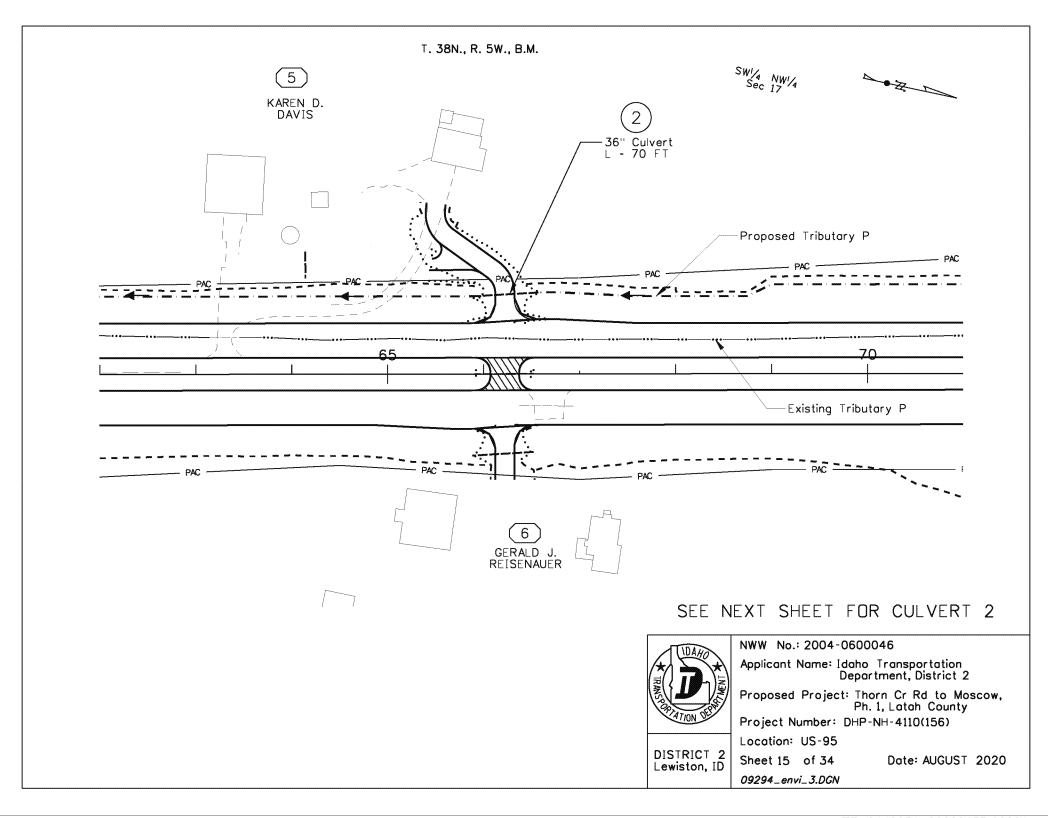
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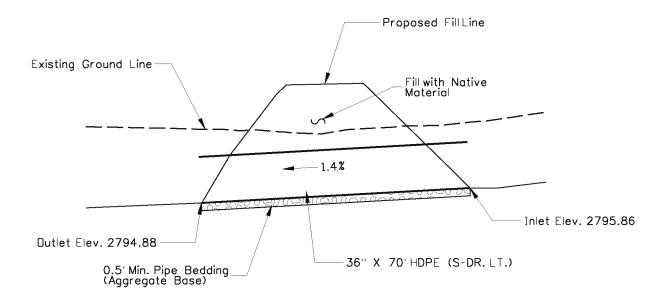
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Date: AUGUST 2020

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NWW No.: 2004-0600046

Applicant Name: Idaho Transportation Department, District 2

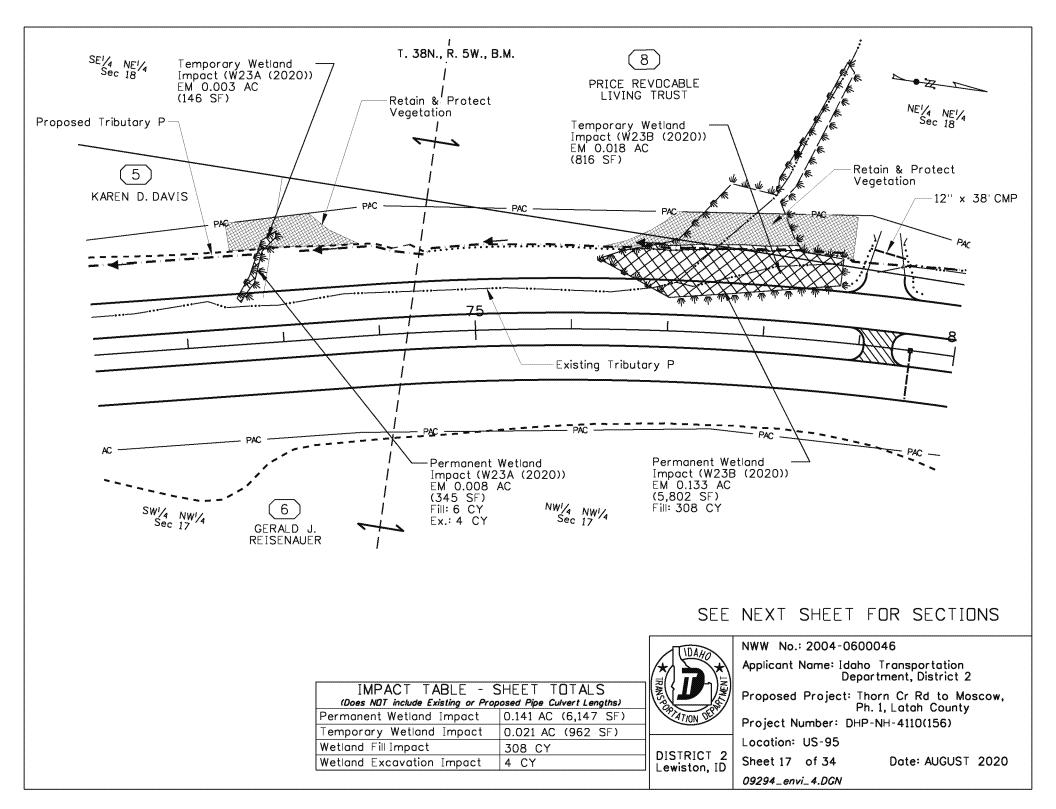
Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

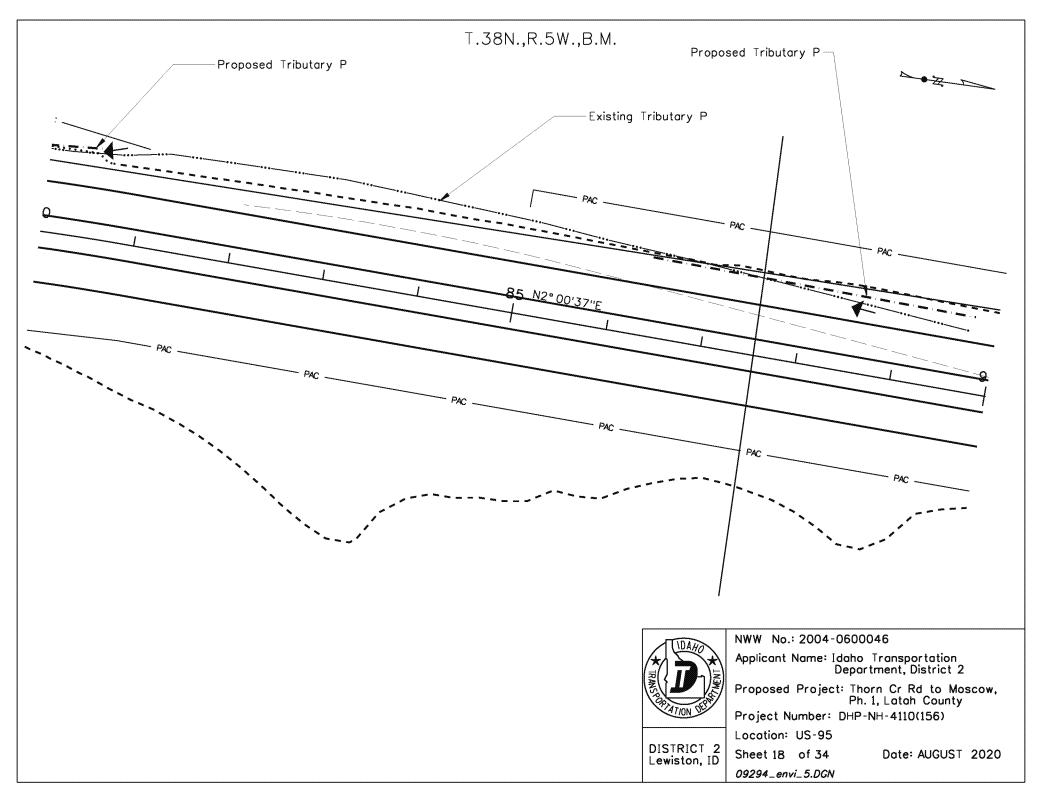
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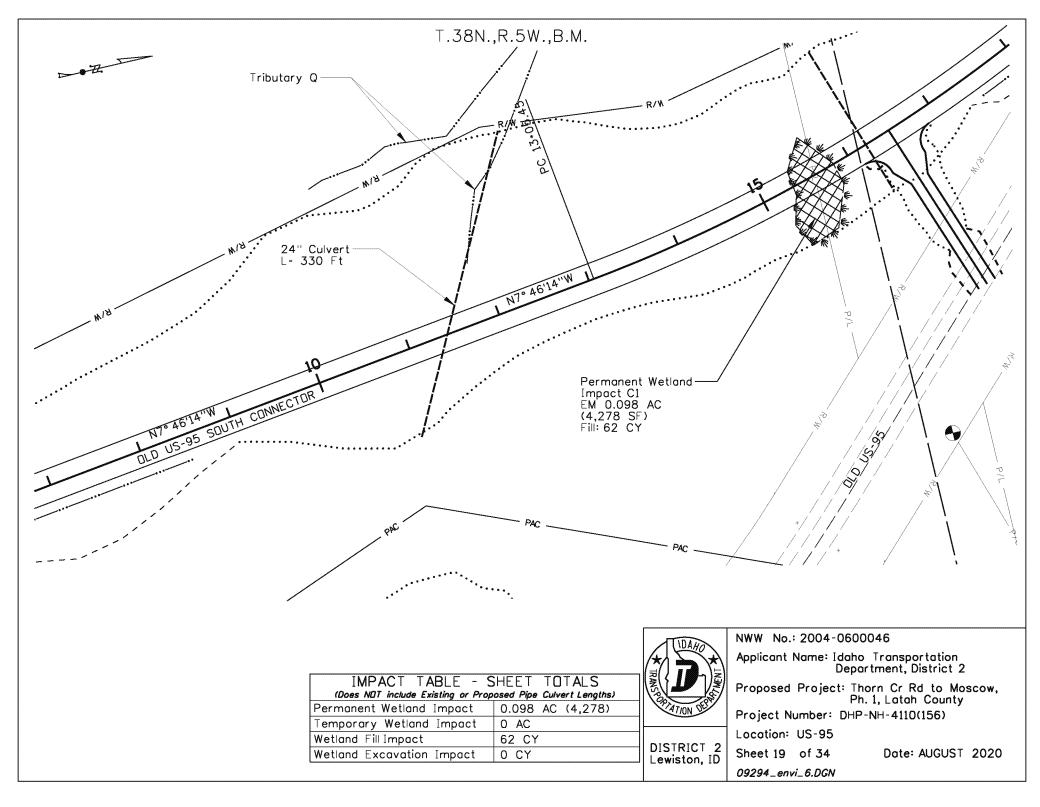
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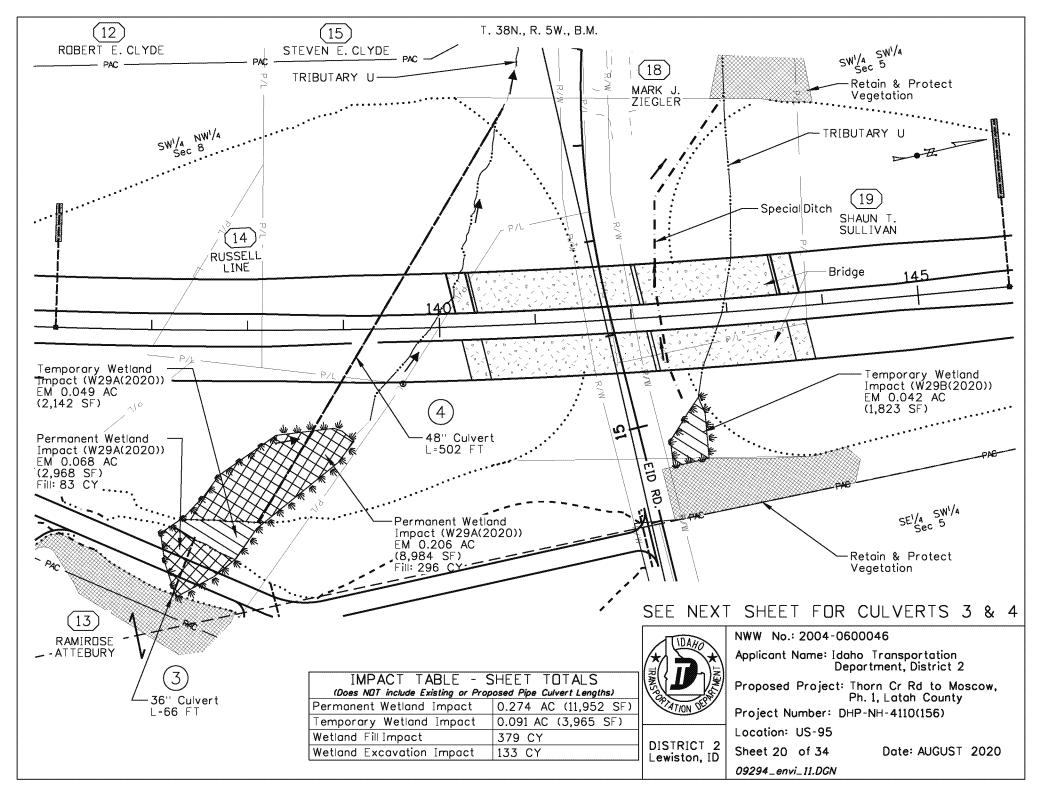
Sheet 16 of 34 Date: AUGUST 2020

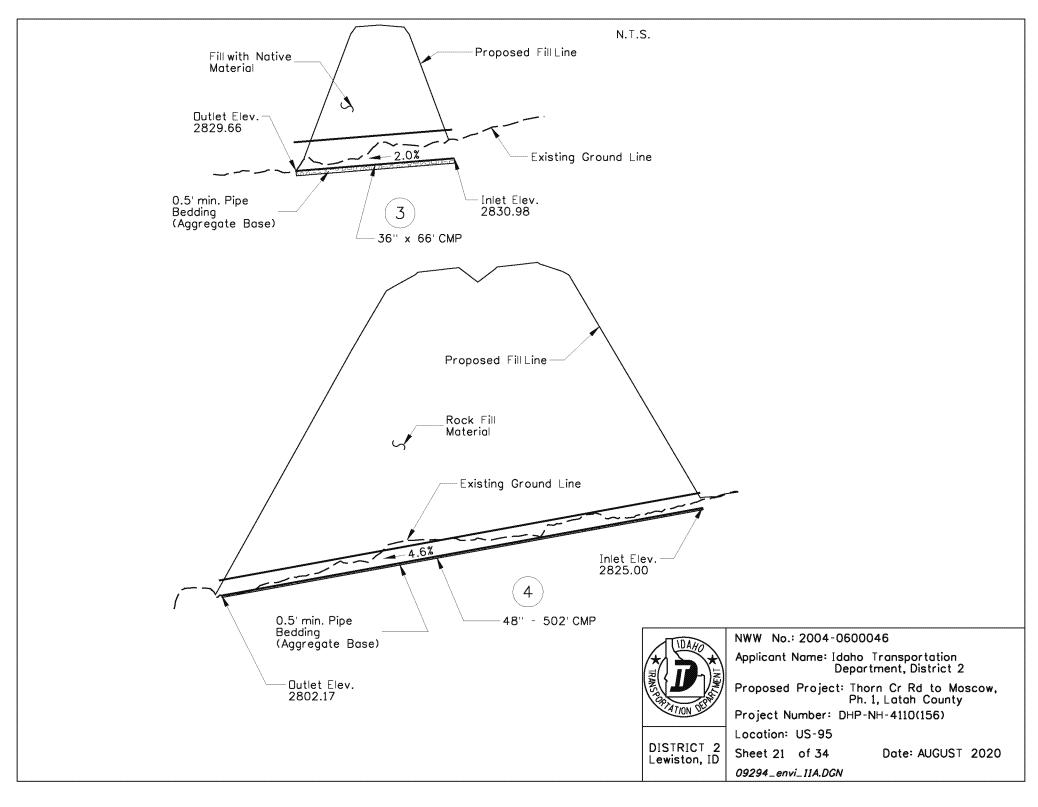
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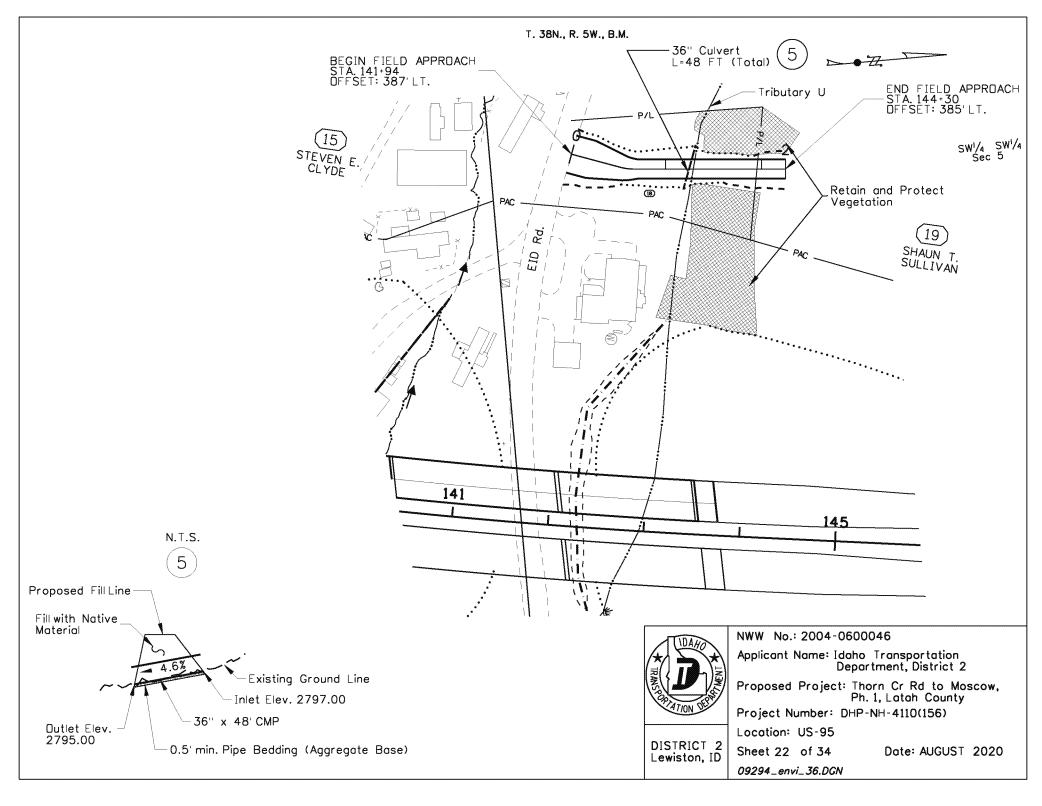


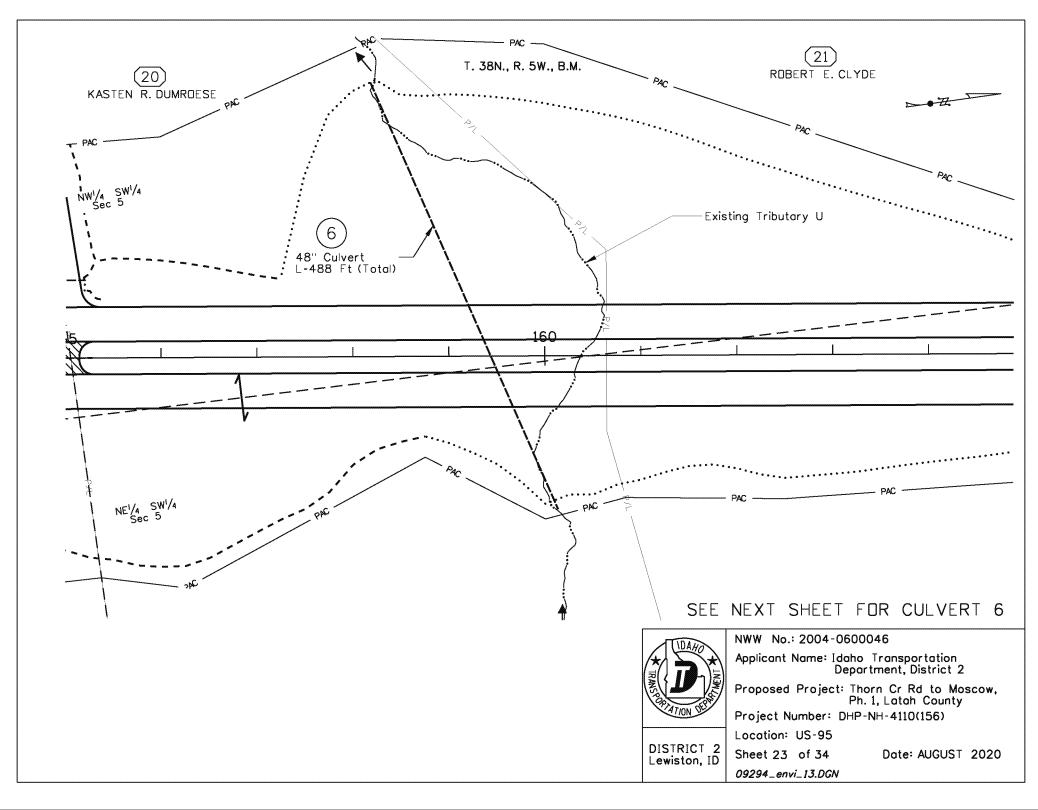




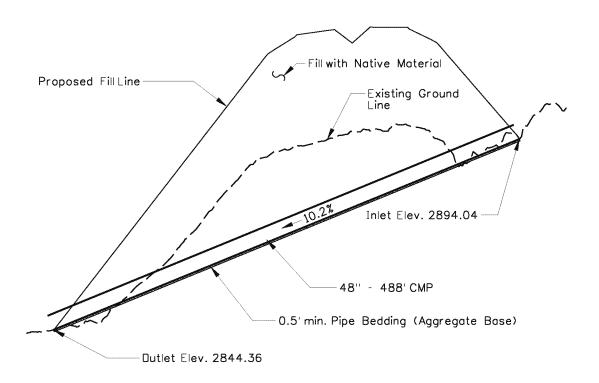














NWW No.: 2004-0600046

Applicant Name: Idaho Transportation Department, District 2

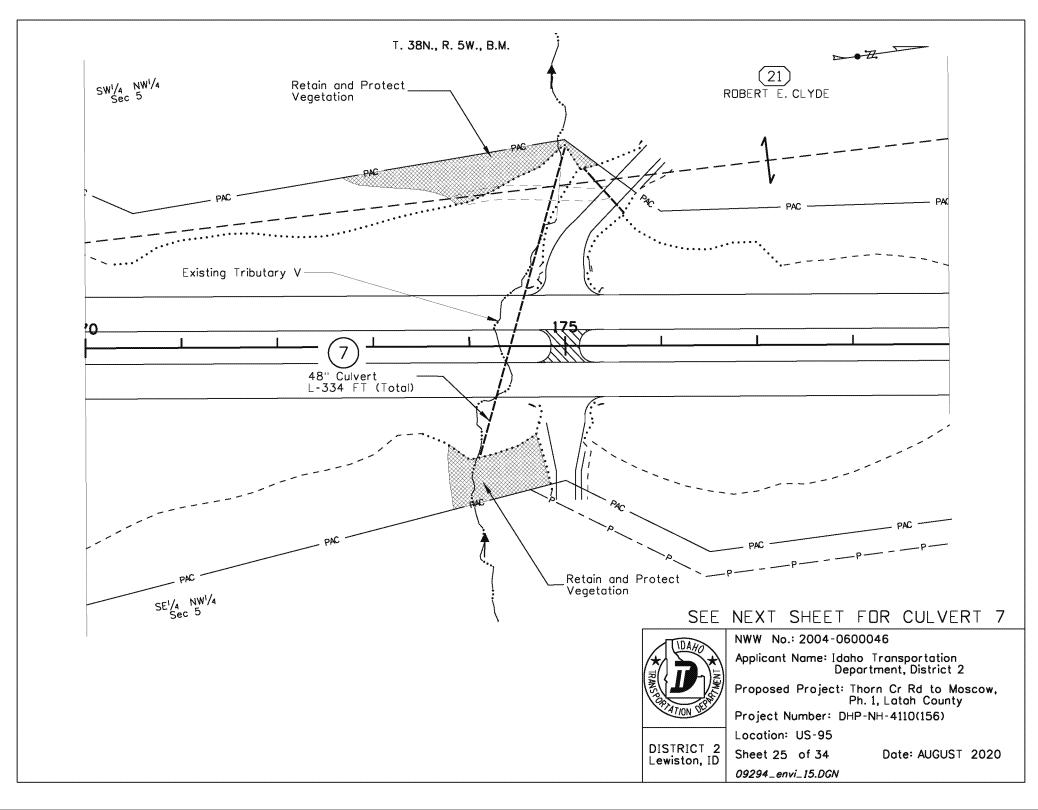
Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

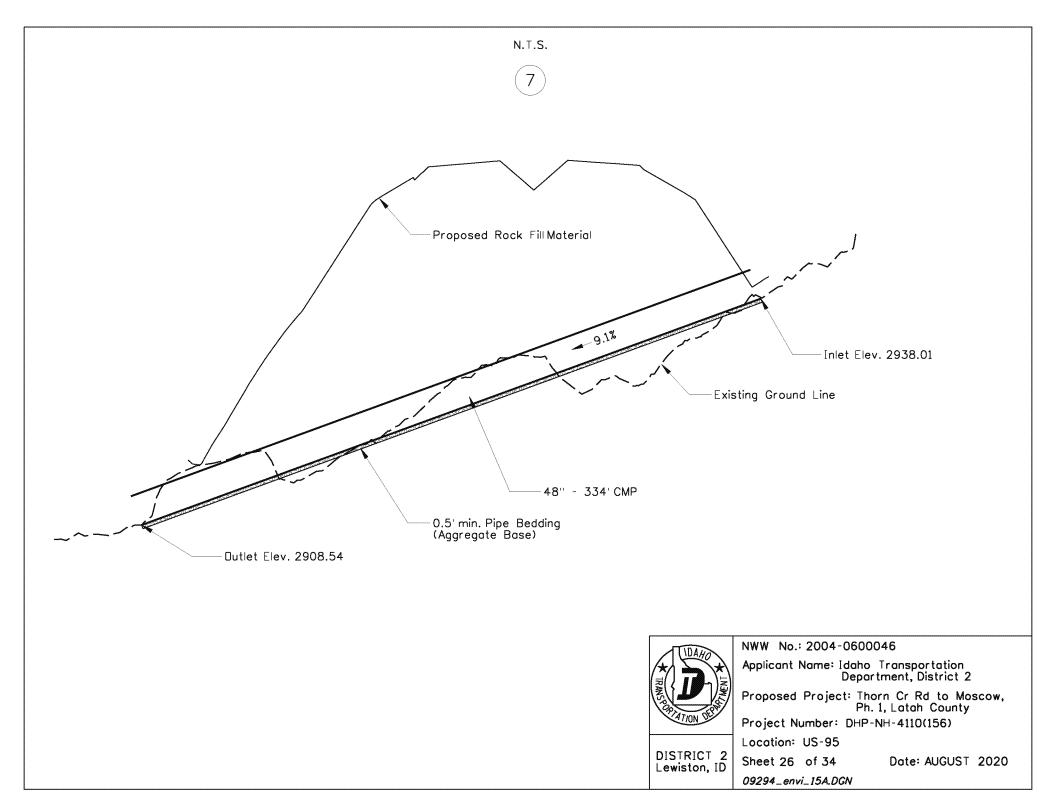
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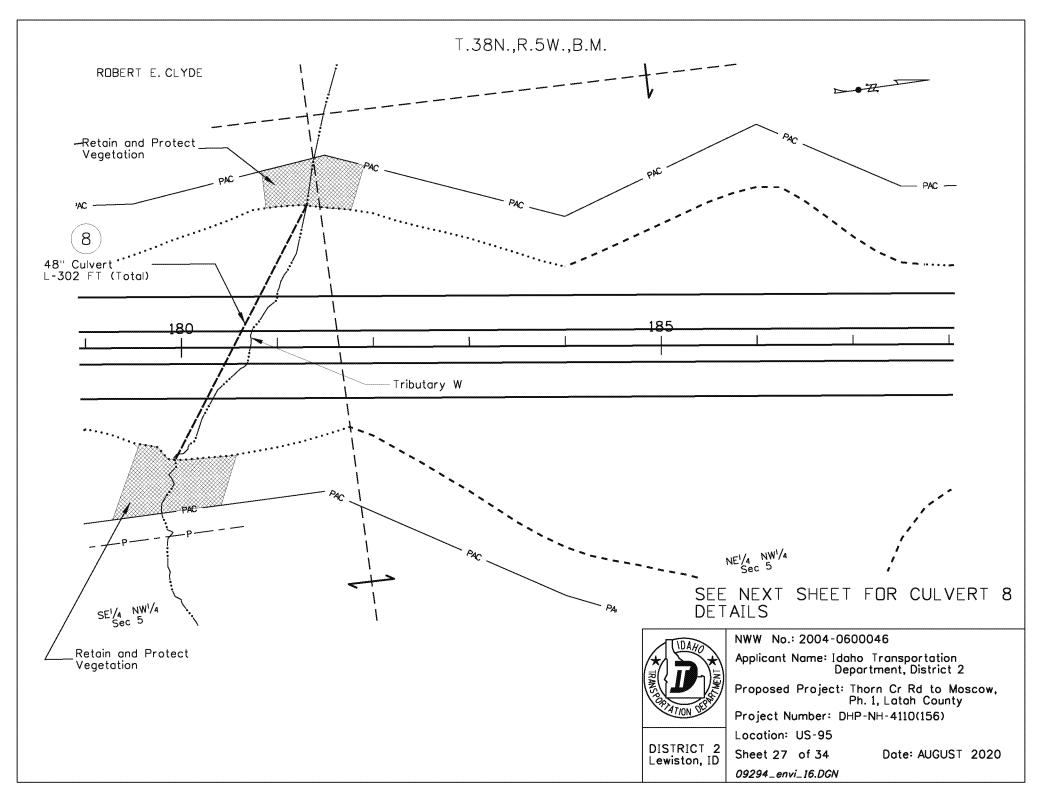
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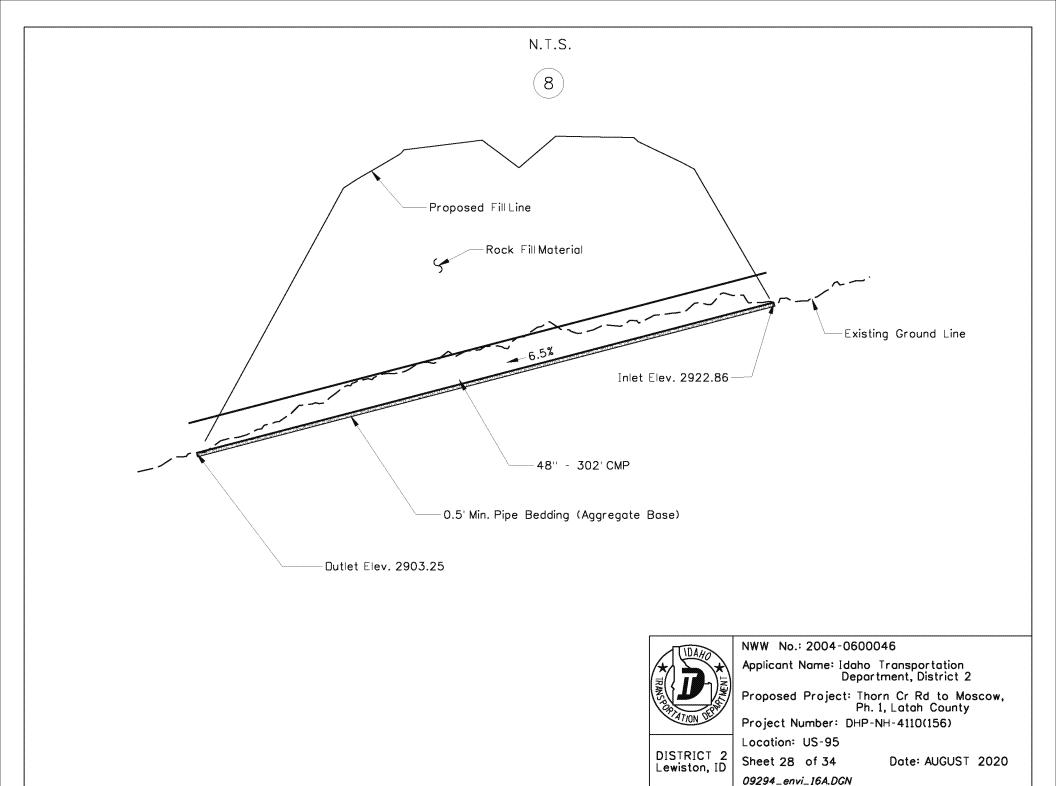
Sheet 24 of 34 Date: AUGUST 2020

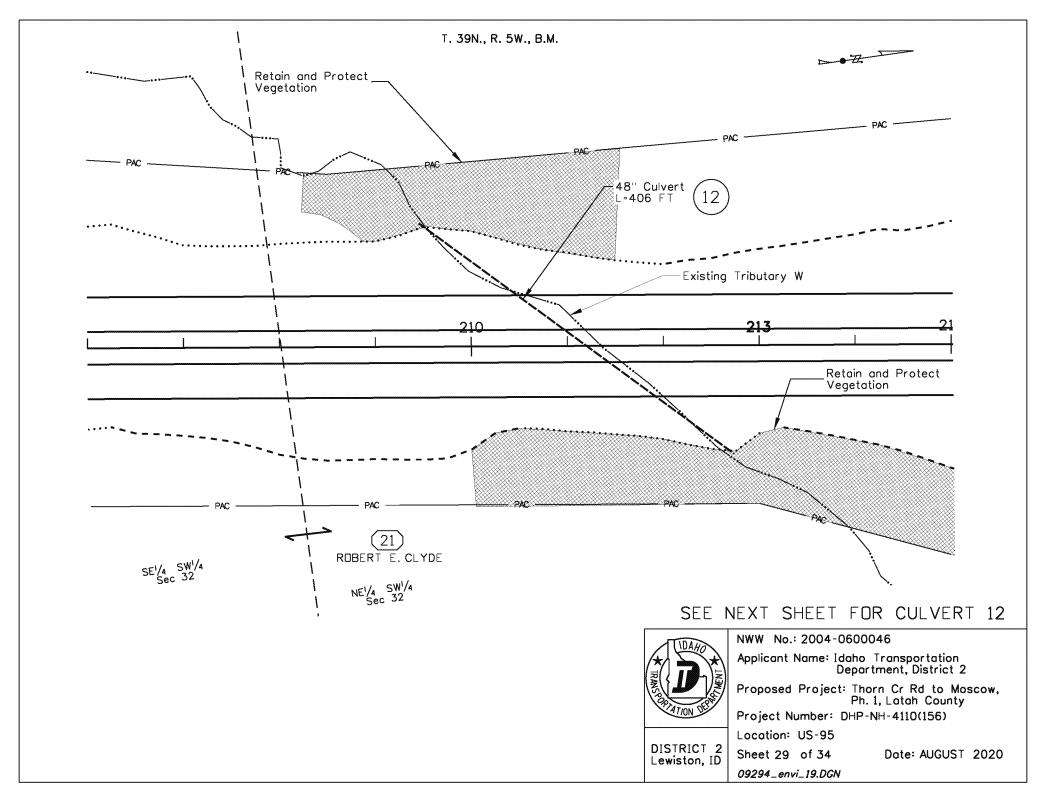
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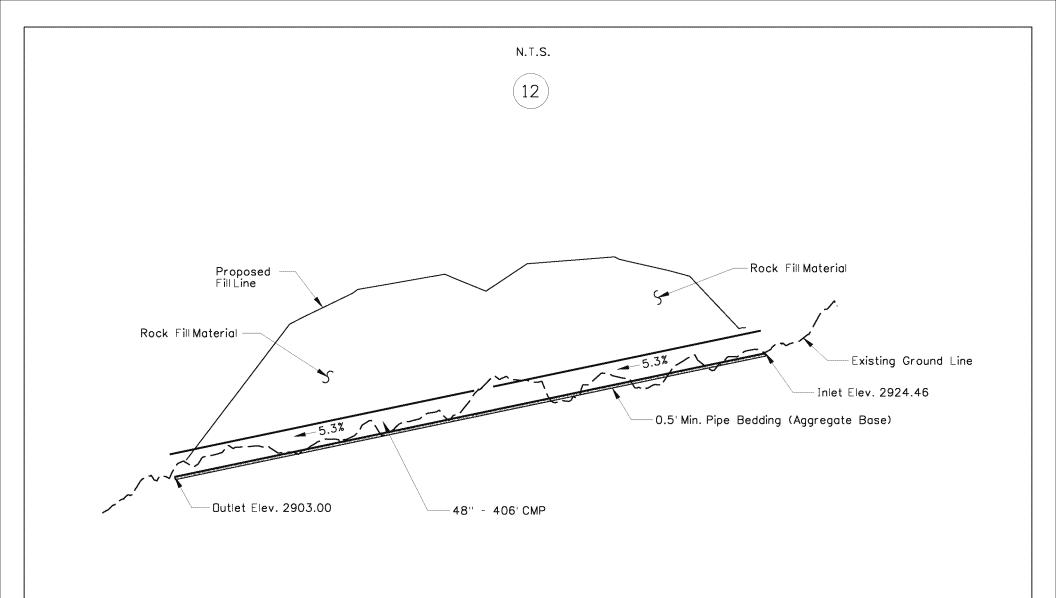














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Applicant Name: Idaho Transportation Department, District 2

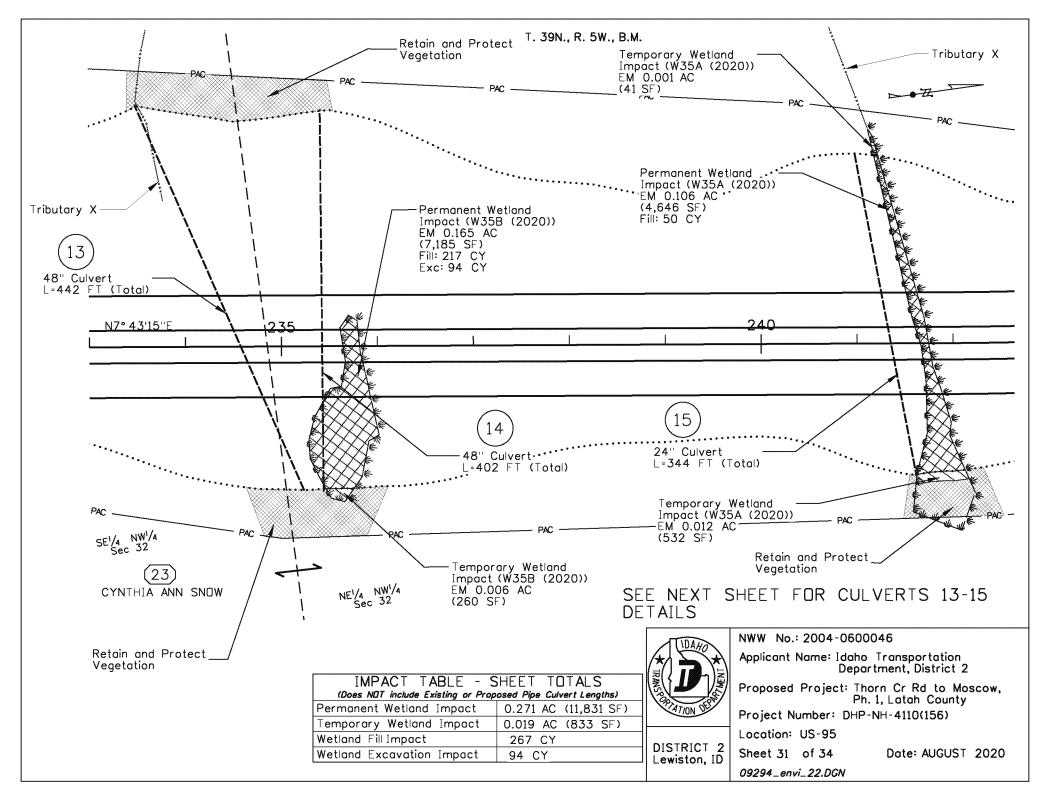
Proposed Project: Thorn Cr Rd to Moscow, Ph. 1, Latah County

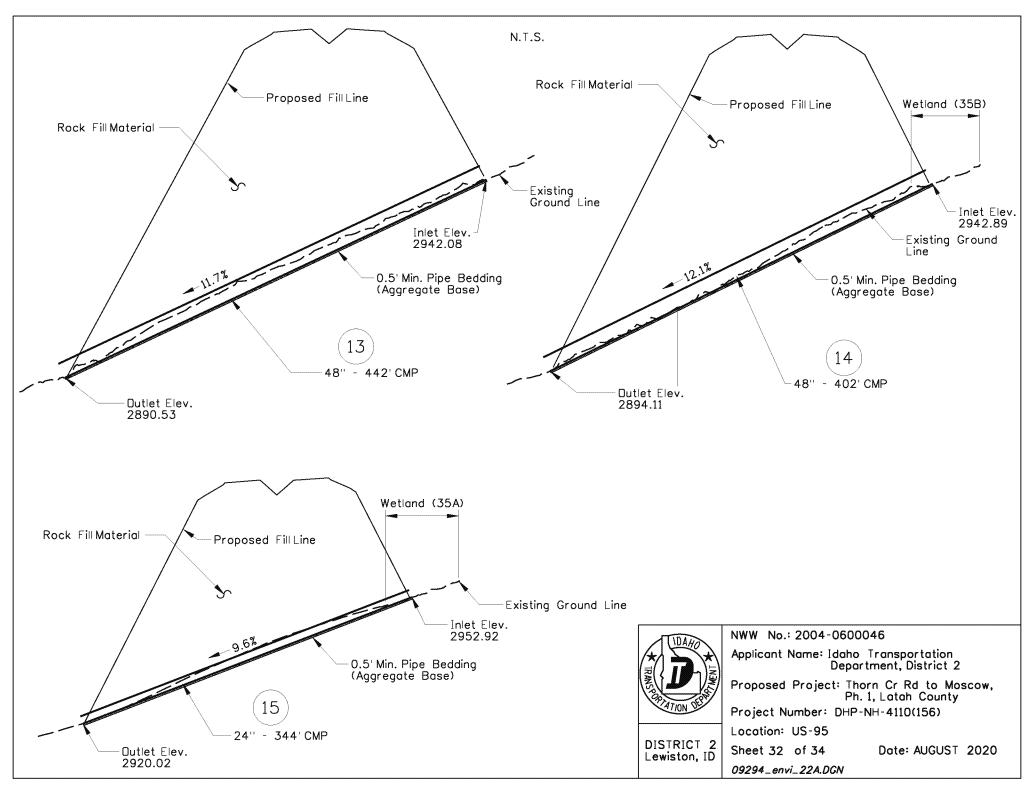
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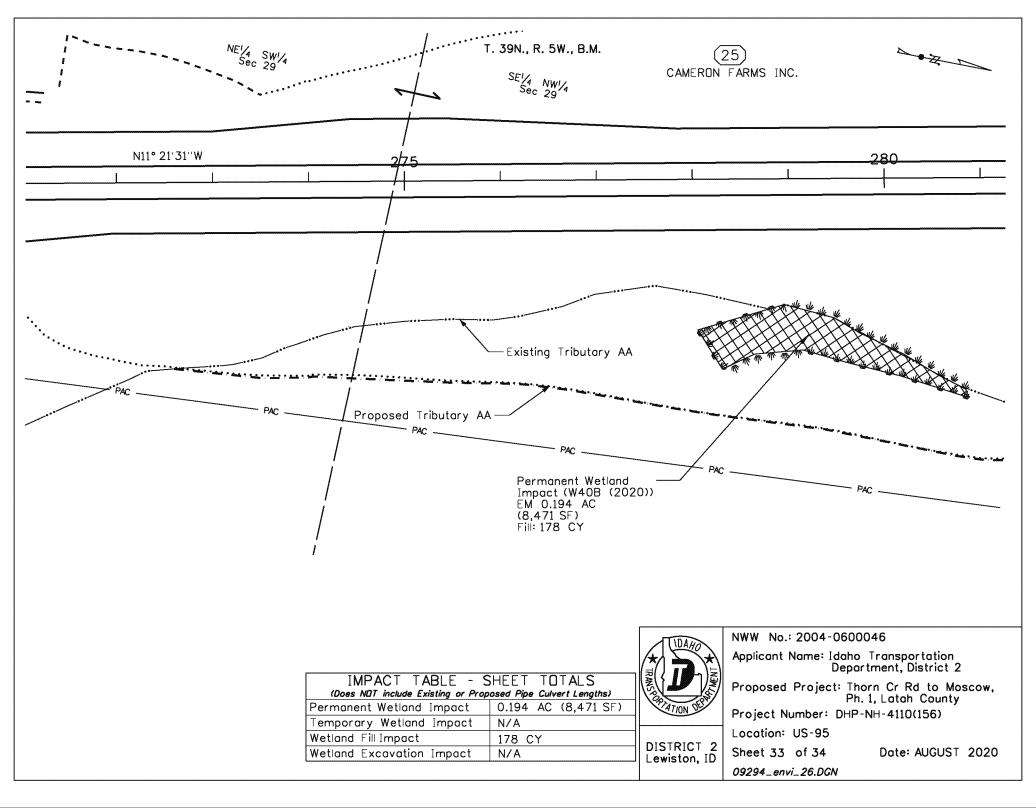
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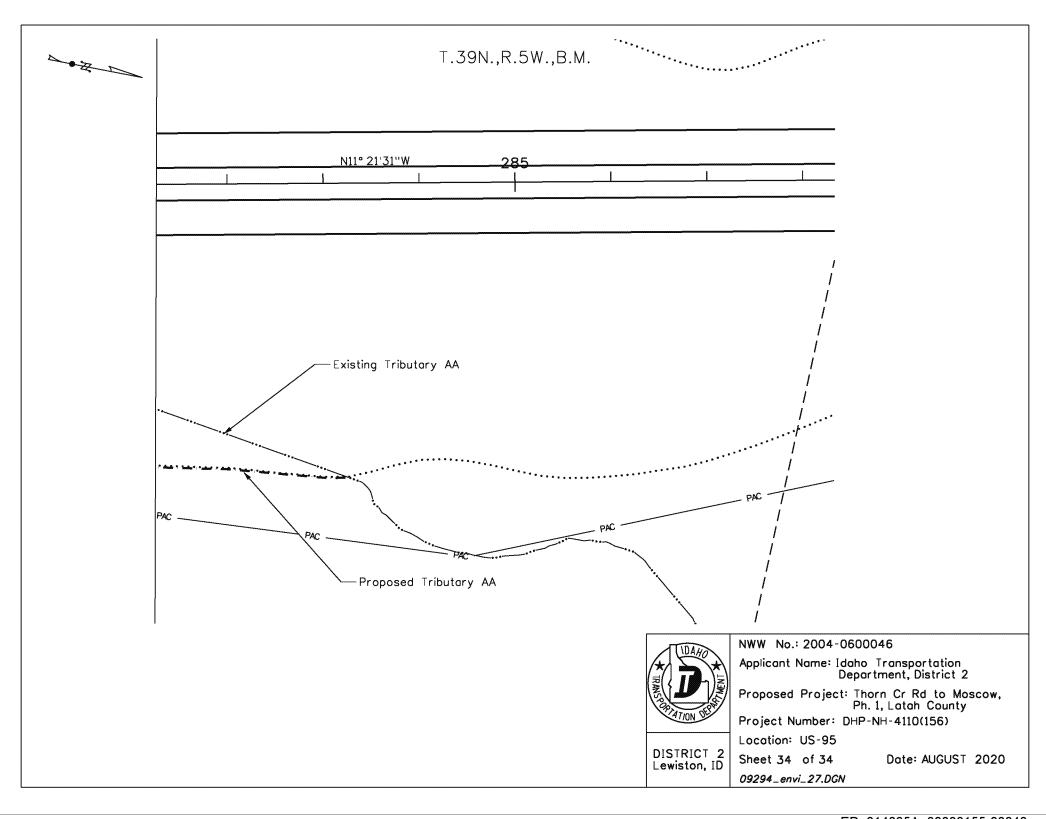
Sheet 30 of 34 Date: AUGUST 2020

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## COMPLIANCE CERTIFICATION





Permit Number: NWW-2004-0600046

Name of Permittee: Idaho Transportation Department, District 2

Date of Issuance: March 9, 2021

Upon completion of the activity authorized by this permit and any mitigation required by the permit, please sign this certification and return it to the following address:

U.S. Army Corps of Engineers Walla Walla District Boise Regulatory Office 720 East Park Boulevard, Suite 245 Boise, Idaho 83712-7757

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with all terms and conditions of this permit, the permit is subject to suspension, modification, or revocation and you are subject to an enforcement action by this office.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit. The required mitigation was also completed in accordance with the permit conditions.

Signature of PERMITEE	DATE

# APPENDIX A – Permitting Tables 1 through 3, dated January 26, 2021

Table 1- Wetland impacts, fill quantities, and activity description.

NWP 14 site number	Aquatic Resource ID	Drawing Sheet	Activity	Wetland Type	Distance to Water Body (linear feet)/ Water Body	Permanent Wetland losses (acres)	Permanent Native topsoil and rock fill quantities (cubic yards)	Temporary Native topsoil and rock fill Impacts (acres)	Temporary Native topsoil and rock fill quantities. (cubic yards)	Permanent excavation quantities (cubic yards)	Activity Description
1	B1	13	Roadway widening	Emergent	0/Trib P	0.010	10	0.000	0	1.00	Road Fill, widening existing roadway
1	23A	17	Roadway widening	Emergent	0/Trib P	0.008	6	0.000	0	4.00	Road Fill, widening existing roadway
1	23B	17	Roadway widening	Emergent	0/Trib P	0.133	308	0.000	0	0.00	Road Fill, widening existing roadway
3	C1	19	New Alignment	Emergent	260/Trib Q	0.098	62	0.000	0	0	Construction of new connector to existing US-95
4	29A	20	New Alignment	Emergent	0/Trib U	0.274	379	0.002	6.4	133.00	Fill for new alignment and new approach east of alignment
5	29B	20	New Alignment	Emergent	0/Trib U	0.000	0	0.000	0	0.00	Temporary only, construction disturbance below Eid Rd Bridge. No temporary discharge of fill.
11	35B	31	New Alignment	Emergent	228/Trib X	0.165	217	0.002	6.4	94.00	Fill fornew alignment
12	35A	31	New Alignment	Emergent	0/Trib X	0.106	50	0.000	0	0.00	Fill fornew alignment
13	40B	33	New Alignment	Emergent	0/Trib AA	0.194	178	0.000	0	0.00	Fill fornew alignment

Table 2- Tributary impacts, fill quantities, and activity description.

NWP14 site number	Tributary ID	Station - Start	Station - End	Sheet	Activity	Tributary Total loss, (Linear feet, not including existing pipe)	Tributary Total loss, (Acres, not including existing pipe)	Culvert Existing (Linear Feet)	Native Topsoil Fill Below OHWM (Cubic yards)	Tributary replacement Length (Linear feet, not including proposed pipe)	Proposed Pipe Length (Linear feet)	Activity Description	Temporary diversion dam fill impacts (acres)	Temporary diversion dam fill (Cubic yards)	Temporary diversion dam impact of fill + dew atered area (acres)
1	Thom Creek	44+65	59+38	12,13	Roadway Widening	1,574	0.175	56	157	1,358	218	Culvert extensions and widening of existing roadway, both sides of US-95	0.006	12.8	0.181
1	Trib P	59+35	89+75	13,15 ,17,1 8	Roadway Widening	2,466	0.142	66	91	2,531	108	Culvert extensions and widening of existing roadway, both sides of US-95	0.008	25.6	0.150
2	Trib Q	Connect or Stn 12	-	19	New Alignment	150	0.007	0	6	0	330	Construction of new connector to existing US-95	0.001	6.4	0.008
4	Trib U	138+86	140+80	20	New Alignment	376	0.042	30	35	0	502	48" culvert for new alignment	0.002	6.4	0.044
5	Trib U	142+63	143+14	20	New Alignment	318	0.059	0	80	341	0	Tributary will be shifted south into new ditch inside bridge abutment	0.00009	12.8	0.059
5	Trib U	Eid Rd 141+94	144+30	22	Approach Crossing on Eid Rd	41	0.008	0	6	0	48	Installation of 36" CMP at approach Crossing	0.00009	12.8	0.008
6	Trib U	158+19	160+62	23	New Alignment	611	0.029	0	48	0	488	48" culvert for new alignment	0.003	12.8	0.032
7	Trib V	174+08	174+97	25	New Alignment	317	0.025	0	32	0	334	48" culvert for new alignment	0.007	12.8	0.032
8	Trib W	179+91	181+31	27	New Alignment	315	0.117	0	62	0	302	48" culvert for new alignment	0.009	12.8	0.126
9	Trib W	209+52	212+59	29	New Alignment	395	0.043	0	32	0	406	48" culvert for new alignment	0.004	12.8	0.047
10	Trib X	233+51	233+76	31	New Alignment	102	0.005	0	4	0	442	48" culvert for new alignment	0.005	6.4	0.010
13	Trib AA	272+66	281+03	33,34	New Alignment	1,110	0.055	0	41	1,076	0	Tributary will be shifted east into new ditch outside of new alignment fill	N/A	N/A	N/A

Table 3 - NWP 14 site impacts, compensatory mitigation, & 401 individual water quality certificates.

NWP14 site number	Permanent native topsoil and rock fill quantities (cubic yards)	Temporary Sandbag fill quantities (cubic yards)	Permanent loss of Wetland (acres)	Permanent loss of Tributary (acres)	Total permanent loss of WOUS (acres)	Temporary Wetland impacts (acres)	Temporary Tributary impacts (acres)	Corps required Wetland Credits	Corps required Tributary Credits	Total Corps required Mitigation Credits	Valencia Mitigation - Credits required	Individual 401 certification	Impacted aquatic resources
1	572	38.4	0.151	0.317	0.468	0	0.331	0.6191	0.9634	1.5825	Yes	Yes	Wetlands (B1, 23A, 23B), Tributary(P, Thorn Creek)
2	6	6.4	0	0.007	0.007	0	0.008	0	0	0	N/A	N/A	Tributary(Q)
3	62	0	0.098	0	0.098	0	0	0	0	0	N/A	Yes	Wetlands (C1)
4	414	12.8	0.274	0.042	0.316	0.002	0.044	1.1782	0	1.1782	Yes	Yes	Wetlands (29A), Tributary(U)
5	86	25.6	0	0.067	0.067	0	0.067	0	0	0	N/A	N/A	Wetland (29B), Tributary(U)
6	48	12.8	0	0.029	0.029	0	0.032	0	0	0	N/A	N/A	Tributary(U)
7	32	12.8	0	0.025	0.025	0	0.032	0	0	0	N/A	N/A	Tributary(V)
8	62	12.8	0	0.117	0.117	0	0.126	0	0.2457	0.2457	Yes	Yes	Tributary(W)
9	32	12.8	0	0.043	0.043	0	0.047	0	0	0	N/A	N/A	Tributary(W)
10	4	12.8	0	0.005	0.005	0	0.01	0	0	0	N/A	N/A	Tributary(X)
11	217	6.4	0.165	0	0.165	0.002	0	0.264	0	0.264	Yes	Yes	Wetlands (35B)
12	50	0	0.106	0	0.106	0	0	0.2226	0	0.2226	Yes	Yes	Wetlands (35A)
13	219	0	0.194	0.055	0.249	0	0	0.4074	0	0.4074	Yes	Yes	Wetlands (40B), Tributary(AA)



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#### **MEMO**

DATE: September 22, 2020

TO: Shawn Smith, District 2, Idaho Transportation Department (ITD)

FROM: Shelly Gilmore

RE: Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report

for Areas within the US-95 E-2 Alignment

### **Background**

In response to a request by the US Army Corps of Engineers (Corps) for additional data to support project information, a recent on-site project area review was conducted. The areas of concern were outlined in correspondence from the Corps<sup>1</sup> and included areas that did not have adequate field data points within the most current US-95 E-2 alignment to support wetland review. The resulting site review was conducted to determine the current status of the presence of wetlands and tributaries within the project area. The project area included the land intersected by the E-2 alignment (Google Earth kmz files of the cut and fill slopes involved in the roadway prism, along with previously mapped wetlands and tributaries, were provided April 21, 2020 by ITD).

As quality control, ITD survey department placed survey lathe in selected areas within the alignment prior to this site review, accompanied by kmz files of those survey points. A handheld GPS (Garmin Montana) was used by this author to record those survey points in the field during the site visits. Those data points were provided to ITD along with the test sites and wetland delineation boundaries.

This project area review includes a summary of the findings, along with details about the current size and location of wetlands within the alignment. The review did not include areas outside of the alignment.

To stay consistent with previous evaluations in the project area, the Washington State Wetland Rating System for Eastern Washington was used to evaluate wetlands discussed (and included) in the June 2020 version 1 report.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> Email correspondence from Shane Skaar, CIV USARMY CENWW (US) to Ken Helm and Shawn Smith, Idaho Transportation Department on March 5, 2020, forwarded on March 13, 2020 to Shelly Gilmore, Resource Planning Unlimited, Inc.

<sup>&</sup>lt;sup>2</sup> Hruby, T. 2014. Washington State Wetland Rating System for Eastern Washington. Washington State Department of Ecology Publication #14-06-030. October 2014 (rating form effective January 2015).

Data files (Google Earth kmz files) of the wetlands, data test sites, changes to tributary locations, and ITD survey points accompanied the June 11, 2020 report, identified as Version 1. This version (Version 2) incorporates revisions as requested upon review of the June 2020 report by the Corps.<sup>3</sup>

## **Project Review**

Areas along previously mapped and identified Tributary P (mapped by the topographic survey as Thorn Creek) were evaluated to see if wetlands were supported above the ordinary high water mark (OHWM). **Test site B1**, located on the east side of the tributary, confirmed wetlands are not supported near the beginning of the project along Tributary P. The OHWM was identified by a debris line and flattened grasses. Cropland is managed to the edge of the tributary on the west side.

*Figure 1.* Looking north along Tributary P.



**Test site B2** was located on the west side of Tributary P and did not confirm wetland presence above the OHWM. The tributary appears to be excavated and maintained in this area. The adjacent cropland appears to have been tiled out (as evident from the drain tile outlet shown in Figure 2 near the cross culvert of Thorn Creek under existing US-95).

Figure 2. Tributary P near the cross culvert of Thorn Creek under existing US-95.



<sup>&</sup>lt;sup>3</sup> Revisions requested by Shane Skaar, CIV USARMY CENWW (US) August 3, 2020 during a conference call with this author, Shawn Smith, ITD, Michelle Anderson, Anderson Environmental, and Shane Skaar.

Figure 3. Location of Test Sites B1 and B2 near the beginning of the project area.



**Tests Sites B3 and B4** confirmed the presence of a Category III grass-dominated slope wetland along a small drainage pattern in the cropland (rating forms located in the appendix). Wetland presence has not been mapped in this location by previous reports or field reviews. The emergent wetland, referred to as **Wetland B1(2020)** is dominated by grasses and grass-like plants and extends upstream outside of the project area along a small east-flowing drainage pattern through croplands. The wetland is adjacent to Tributary P. Hayland borders the wetland on the north and cropland on the south side. Some snowberry, rose, and Canada thistle were present outside of the wetland boundaries on the north side.

Figure 4. Location of test sites B3 and B4 and Wetland B1(2020).

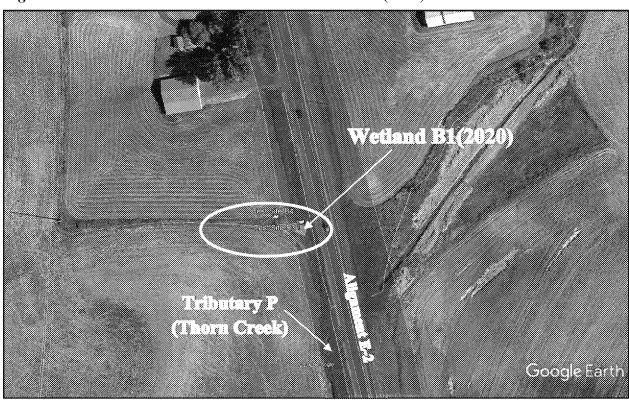


Figure 5. Test Site B3 in Wetland B1(2020).



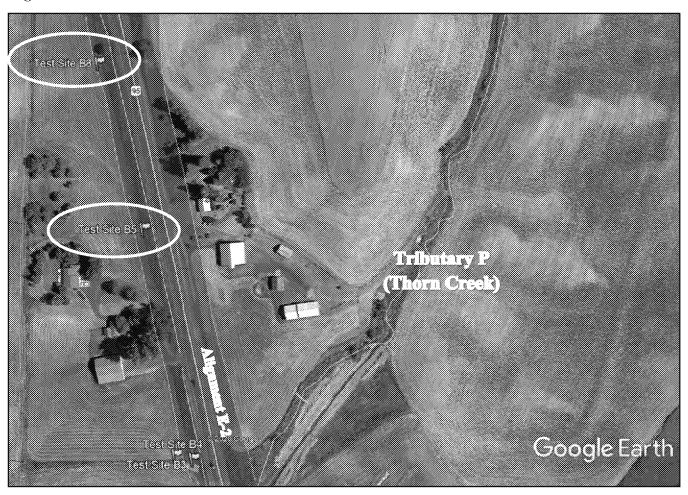
**Test Site B5** was on the west side of Tributary P (upstream of the cross culvert carrying Thorn Creek as identified by the topographic map) in a grassy area. Tributary P in this area appears to be a roadside drainage ditch that is maintained (cleaned and channelized periodically). A small drainage pattern was visible in this area as evident by brighter colored and slightly more vigorous grass growth. Wetlands were not found to be supported in this location; it was observed that the surface water level in the tributary is too low in elevation to support prolonged soil saturation in the adjacent field.

Figure 6. Looking north along Tributary P near Test Site B5.



**Test Site B8** was located in a small drainage pattern on the west side of the main tributary. Wetlands were not found to be supported in this location. A field drain tile outlet was identified near this area.

Figure 7. Location of Test Sites B5 and B8.



Test Sites B6 and B7 were used to confirm the presence of a wetland in this area. The grass and grass-like plant dominated wetland was delineated. The emergent wetland, once mapped as the southern branch of Wetland 23, is smaller than the previously mapped wetland. The wetland is on the west side of the main tributary/drainage ditch. The Category III slope wetland is identified by this report as Wetland 23A(2020).

Test Sites B9 and B10 were also used to confirm the presence of wetlands. The grass and grass-like plant dominated wetland was delineated. The emergent wetland, once mapped as the northern branch of Wetland 23, is smaller than the previously mapped wetland. It appears that sediment has collected in this grassy low-gradient area and minimized the size of the previously mapped wetland. The wetland is on the west side of the main tributary/drainage ditch. The Category III slope wetland is identified by this report as Wetland 23B(2020).

Figure 8. Looking west at Wetland 23A(2020).



Figure 9. Looking north (upstream) at tributary/drainage ditch from field access near Wetland 23B(2020).



Figure 10. Location of Test Sites B6 and B7 and Wetland 23A(2020).

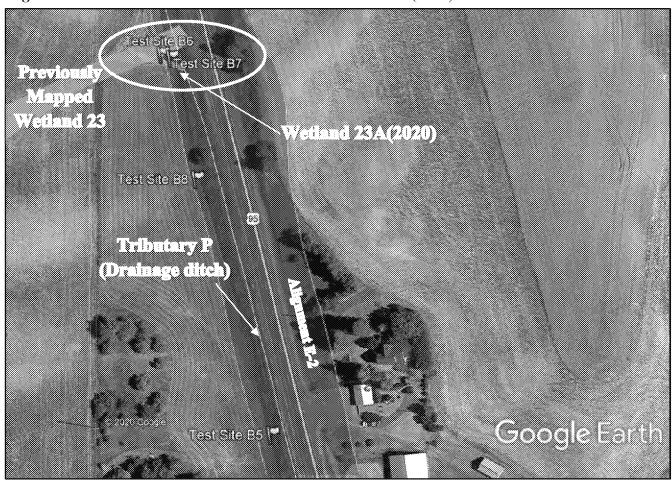
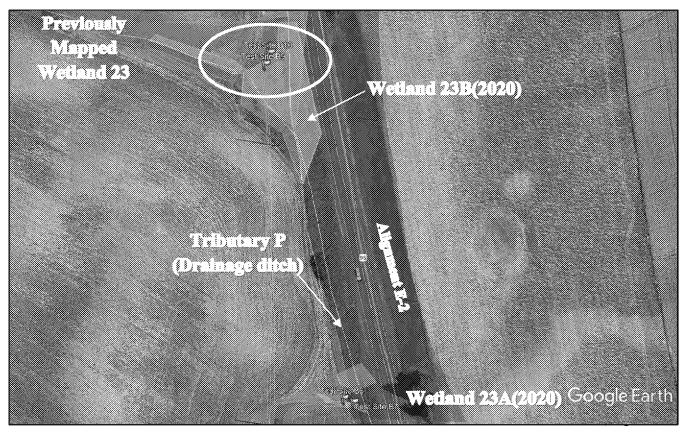


Figure 11. Location of Test Sites B9 and B10 and Wetland 23B(2020).



**Test Site B11** was located in an abandon farmstead area on the west side of the existing highway. Wetlands were not found to be supported in this location. A culvert under the property access looks to be partially plugged, and there was some saturation at about 16 inches from the top of the test pit. The overland flow from the site travels in a southerly direction to the tributary/drainage ditch. Soils do not appear to stay saturated into the growing season.

Figure 12. Looking north along the existing highway at Test Site B11.



Figure 13. Location of Test Site B11.



**Test Site B12** was located on the north side of Tributary P (mapped as Thorn Creek). The tributary has been cleaned out with the excavated material deposited on the north side of the channel. The surface water elevation is lower at OHWM and does not appear to support wetland characteristics adjacent to and above the OHWM. The OHWM was not very evident, although a scour line on the bank was evident. The south side of the tributary slopes up and away from the top of bank. The downstream end of the box culvert, which carries the tributary in a southwesterly direction, was channelized and appeared to be recently cleaned out. Wetlands were not found to be supported adjacent to the tributary within the alignment. The area was once mapped as **Wetland 28**.

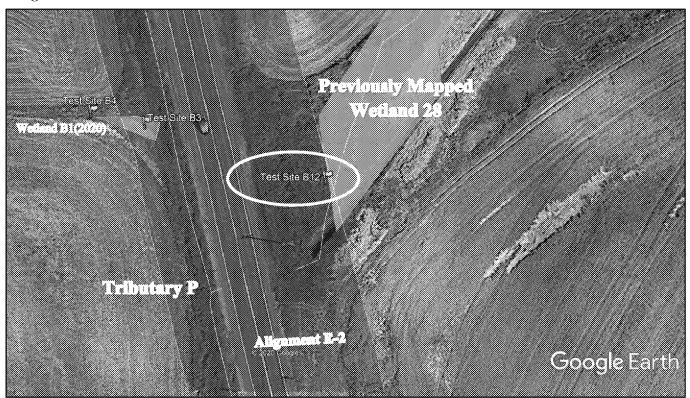
Figure 14. Discharge point at box culvert of the tributary (mapped as Thorn Creek).



Figure 15. Looking upstream at the tributary near Test Site B12.



Figure 16. Location of Test Site B12.



**Test Site B13** was located below a cross culvert at the top of a drainage draw on the west side of the existing highway. The gradient in this area is steep and the site does not appear to allow soils to stay saturated into the growing season. Wetlands were not found to be supported in this location.

Figure 17. Looking southeast at Test Site B13.



Figure 18. Location of Test Site B13.



**Test Site B14** was located below a farm pond in a grassy area along between two access roadways on the south side of Eid Road. This test site was in a grassy area that was noticably more green with new growth than some of the other areas across the reed canarygrass field. The test site confirmed the presence of a Category III slope **Wetland 29A(2020)** (previously mapped Wetland 29). The emergent wetland is dominated by grasses and appears to receive its hydrology from the pond overflow or leakage. The wetland is confined by the landform on the west and east side where the toe of the road fill slopes up and away from the lower part of the field. The wetland drains through a culvert in an access roadway to previously mapped tributary, which is confined to its banks. **Test Site B15** verified the wetland/nonwetland boundary of Wetland 29A(2020).

Test Site B16 was located on the north side of the tributary/drainage ditch below Wetland 29A(2020) on what looked like a small floodplain bench. Wetlands are not supported above the OHWM (as observed by a scour line on the right bank (looking downstream)). The gradient of the tributary/drainage ditch steepens downstream of this test site area, where the tributary flows through a culvert and becomes more channelized/downcut and streambanks become steeper. The tributary looks as if it has recently been cleaned out.

Figure 19. Location of Test Sites B14, B15, and B16, and Wetland 29A(2020).

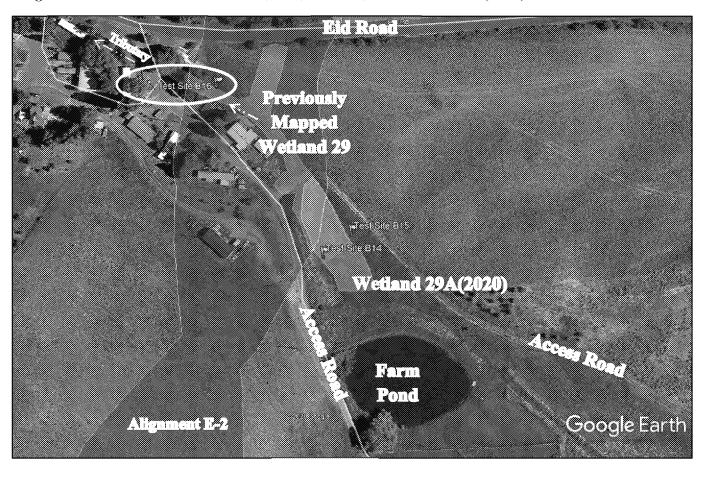
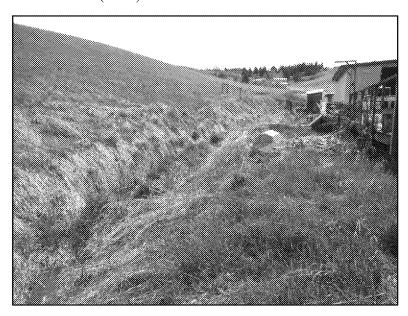


Figure 20. Looking southeast at Wetland 29A(2020).



*Figure 21.* Looking upstream along the tributary on the south side of Eid Road (downstream of Wetland 29A(2020).



**Test Site B17** was located in a wide grassy drainage pattern on the north side of Eid Road. The test site verified wetland presence of a grass-dominated wetland previously named Wetland 29, referred to in this report as a Category III slope **Wetland 29B(2020)**. The emergent wetland receives overland flow from grass covered uplands and roadside runoff; surface water flows to previously mapped Tributary U. **Test Site B18** defined the wetland/nonwetland boundaries where the vegetation changed slightly and the landform sloped up and away from the low area.

**Test Site B19** was downstream of the wetland on the south bank of the tributary, which had some scouring on the right bank (looking downstream) by a willow tree. The tributary is channelized and does not support wetlands above the OHWM below Wetland 29B(2020).

**Test Site B20** was on the north side of the tributary (downstream of Test Site B19) in what appeared to be a small floodplain area. Wetland presence was not confirmed at this test site.





Figure 23. Looking downstream at the tributary below Wetland 29B(2020).

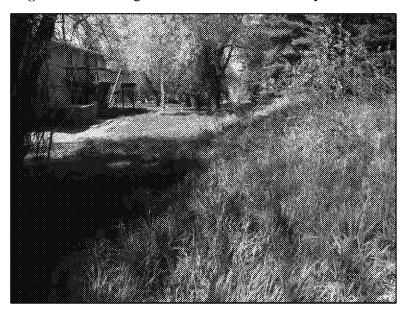
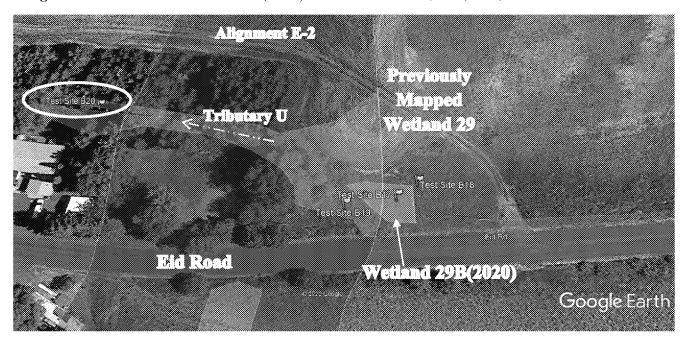


Figure 24. Location of Wetland 29B(2020) and Test Sites B17, B18, B19, and B20.



**Test Site B21** was located in the drainage draw above a farm pond and below a brushy area. The drainage draw was previously mapped as the northern branch of **Wetland 32**. The land appears to be built up with sedimentation. The area supports mullien and cow parsnip as well as reed canarygrass. The soils do not indicate that they stay saturated into the growing season. **Test Site B22** was located in the drainage pattern to the south of Test Site B21. The test site was dug in a small ditch bottom. The drainage pattern appears to have been drained possibly with drain tile with cropland encroaching in on the sides. The pond below the drainage draw was flowing a small amount of surface water at the time of this site visit, but no surface water (or saturated soils) were present in the drainage draw. Wetland 32 is no longer supported in this area.

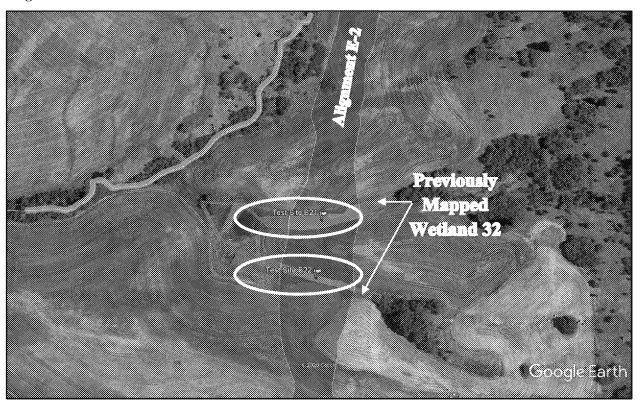
Figure 25. Location of Test Site B21, looking downslope.



Figure 26. Location of Test Site B22, looking downslope.



Figure 27. Location of Test Sites B21 and B22.

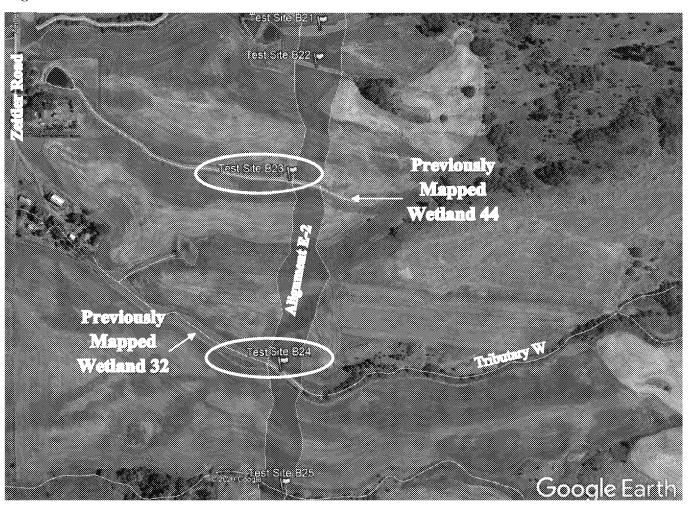


Test Site B23 was located in near a drainage draw once mapped as Wetland 44. The drainage draw is now approximately 8 inches wide (approximately 6 inches deep) and a dry, scoured drainage ditch with exposed rocks. The draw is at a relatively steep gradient. Hydric soil characteristics in the small drainage pattern are supported, but thought to be relic soil characteristics, wetland hydrology was not supported. Wetland 44 is no longer supported within the alignment in this area.

Figure 28. Looking downstream at the drainage draw and Test Site B23.



Figure 29. Location of Test Sites B23 and B24.



**Test Site B24** was located in a small drainage draw, which was previously mapped as the southern branch of **Wetland 32**. A small, narrow drainage ditch runs through the center of the drainage pattern, previously identified as Tributary W. Snowberry and roses were along the edge of the drainage pattern. Wetland 32 is no long supported in this area.

Figure 30. Looking downstream from Test Site B24. Tall grass (last year's growth in the picture) was determined to be tall or intermediate wheatgrass (no hydrophytic vegetation indicator status).



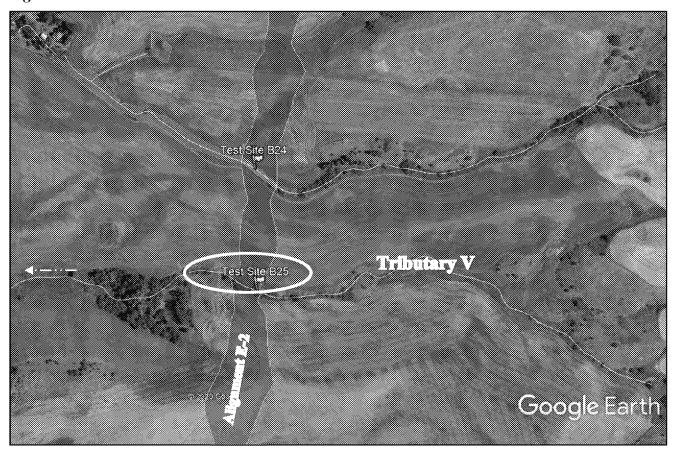
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**Test Site B25** was located on the north side of a previously mapped tributary (Tributary V) to rule out wetland presence adjacent to the tributary within the alignment. Wetlands are not supported above the OHWM of the tributary. The tributary is deep with large, exposed rocks and on a relatively steep gradient. The test site (and western side of the alignment) is near (upstream) of a 36 inch culvert with a small amount of flowing water at the time of this site visit. The land at the top of the banks slopes up and away from the tributary. The tributary is relatively deep and soils above the OHWM do not appear to stay saturated into the growing season.

Figure 31. Looking downstream at Tributary V from Test Site B25.



Figure 32. Location of Test Site B25.



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**Test Site B26** was located in the bottom of a drainage pattern at the edge of the cropland field previously mapped as the southern branch of Wetland 35B. The test site is mostly surrounded by planted winter wheat in the cropland. A mounded area (likely a rocky outcrop) to the north of the test site contained upland species including yarrow and cheatgrass. Weland hydrology is not supported at this site. A small scour area was present at this area, which was about 18" wide and 6" deep. The scoured pattern continued downstream outside of the boundary of the alignment. The land steepens up slope on both sides of the drainage pattern. Farming activities appear to have encroached into the rocky mound area, which may have narrowed the wetland area once observed here.

**Test Site B27** was located in the drainage pattern associated with the northern branch of the area previously mapped as Wetland 35B. The test site was located in a grassy drainage way surrounded by cropland planted to wheat. There was some standing water present. This test site determines support of wetland characteristics referred to as a Category III slope **Wetland 35B(2020)**. **Test Sites B28 and B29** support the wetland/nonwetland boundaries of Wetland 35B(2020). A mounded area (likely a rocky outcrop) dominated by upland vegetative species is located to the south of Wetland 35B(2020) and north of the drainage pattern described in Test Site B26. Wetland 35B(2020), an emergent wetland, is smaller than the previously mapped Wetland 35B, which is no longer supported as previously mapped. Overland flow from the wetland appears to travel downslope through a nonwetland grassy area and cropland; the cropland on the edge of the grassy area was in winter wheat with weed growth (scented mayweed). It is also assumed that the surface water from the wetland may find its way to the rocky substrate indicative of the rock outcrop as previously discussed. Surface water from Wetland 35B(2020) flows to a tributary network previously identified as Tributary W.

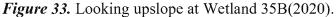
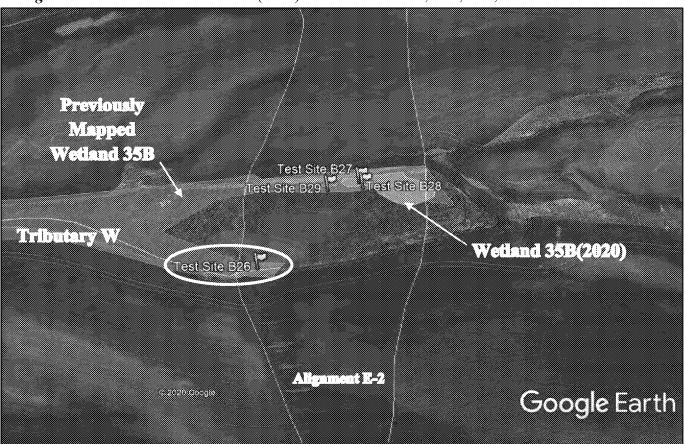




Figure 34. Location of Wetland 35B(2020) and Test Sites B26, B27, B28, and B29.



Test Site B30 was located in a farmed field near a drainage pattern. The site is an agriculturally managed plant community (planted to winter wheat). The wetland area presented soils wet to the surface during the site visit, which defined the boundaries of the wetland. Judging from other test sites in the project area, if the field had not been managed for weed growth and planted to a crop, it would likely support reed canarygrass or meadow foxtail (both FACW wetland indicator status). The site would best be described as a farmed wetland. A small amount of surface water was flowing in the narrow wetland at the time of this site visit, and appears to be coming from a hillside seep. The wetland had previously been mapped as the southern branch of Wetland 35A, with boundaries re-delineated and now referred to as Category IV slope Wetland 35A(2020). Test Site B31 confirmed the wetland/nonwetland boundary of Wetland 35A(2020), which extends up and downslope of the E-2 alignment.

**Test Site B32** was located in a farmed field drainage pattern where a scoured ditch appears to carry surface water flow (the ditch was approximately 12 inches wide and 4 inches deep with relatively steep side slopes along the ditch). The previously mapped northern branch of Wetland 35A is no longer supported in the area as farming practices have appeared to shape the land in such a way that the wetland features are now better described as a tributary.

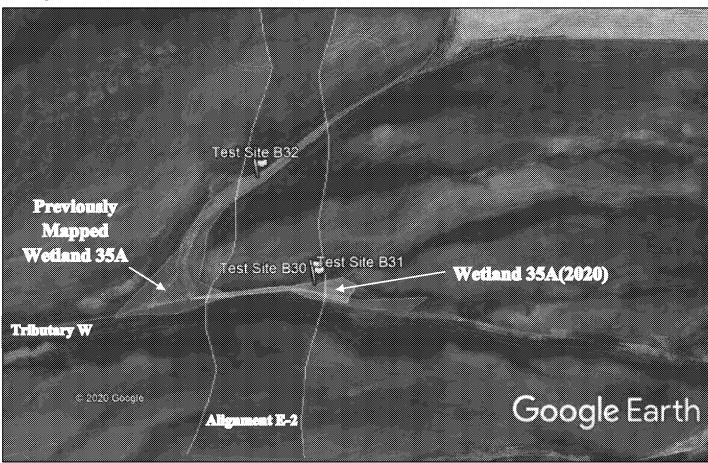
Figure 35. Looking upslope at Test Site B32, previously mapped as the northern branch of Wetland 35A.



Figure 36. Looking north at Wetland 35A(2020).



Figure 37. Location of Wetland 35A(2020) and Test Sites B30, B31, and B32.



Test Site B33 was located in a farm field; the grasses have been sprayed out and crops planted in the adjacent field. The area looks to have been chiseled or plowed through. The test site confirms wetland presence in an area previously mapped as Wetland 40, re-delineated and referred to as Category IV slope Wetland 40(2020). The emergent wetland can best be described as a farmed wetland. Wetland/nonwetland boundaries were determined with Test Site B34 (observances in vegetation changes and soil saturation). The wetland extends downstream just out of the alignment prism into previously identified Tributary AA, although the tributary has been excavated into a different drainage pattern than previously mapped (current tributary location was mapped with GPS points in the field). A farmed drainage ditch/tributary flows in a northerly direction to the wetland and is approximately 12 inches wide and 3 inches deep; the ditch is excavated and scoured. Test Site B35 indicates the previously mapped Wetland 40 does not extend upslope along the ditch/tributary. The ditch/tributary in this area is channelized and approximately 18 to 24 inches deep and 12 inches wide. Test Site B36 is near the previously identified head of the ditch/tributary, although no tributary or wetland is present within the alignment in this upslope region.

Test Site B37 was located in an area of the farm field where it appeared that some of the planted crop had been drowned out. There appears to be a small hillside seep in this area, although wetlands were not determined to be supported.

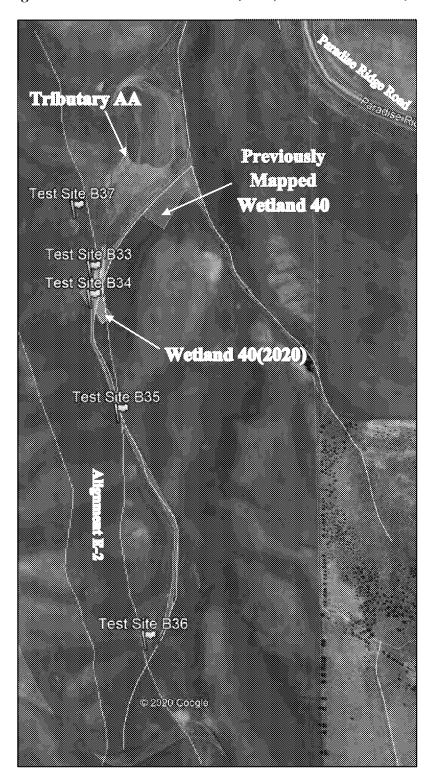
Figure 38. Looking upstream from Wetland 40(2020).



Figure 39. Looking downslope from Test Site B36.

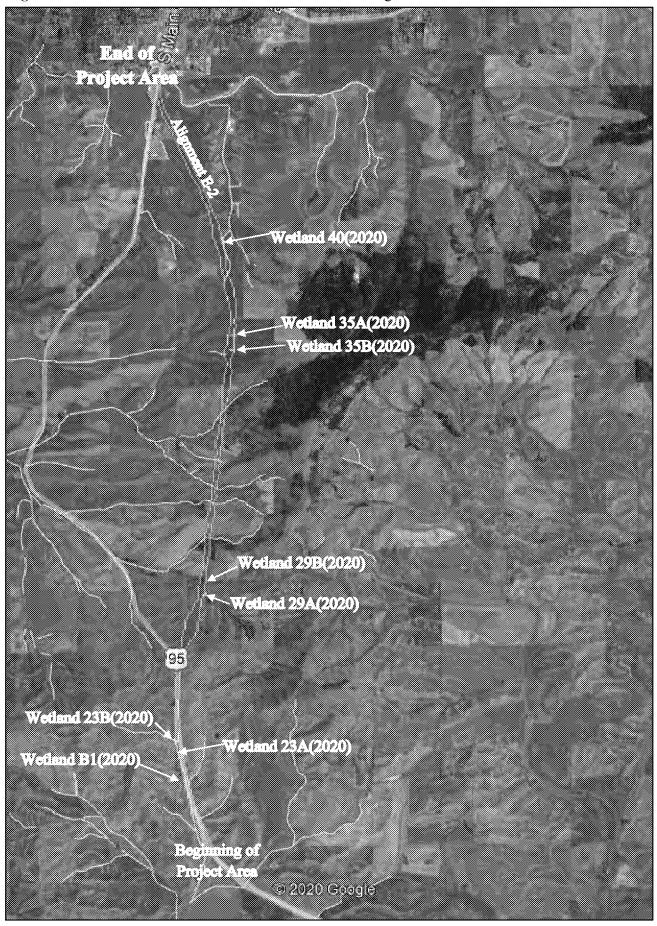


Figure 40. Location of Wetland 40(2020) and Test Sites B33, B34, B35, B36, and B37.



The following figures display current wetland location within the project area.

Figure 41. General location of wetlands within the E-2 alignment.



Weilan (i 28**B** (2020) Weiland (%A(2021) Wedland B1(2020) re 2004 Certain egen Beginning of Briller Area

Figure 42. Location of Wetland B1(2020), Wetland 23A(2020), Wetland 23B(2020).

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Figure 43. Location of Wetland 29A(2020) and Wetland 29B(2020).

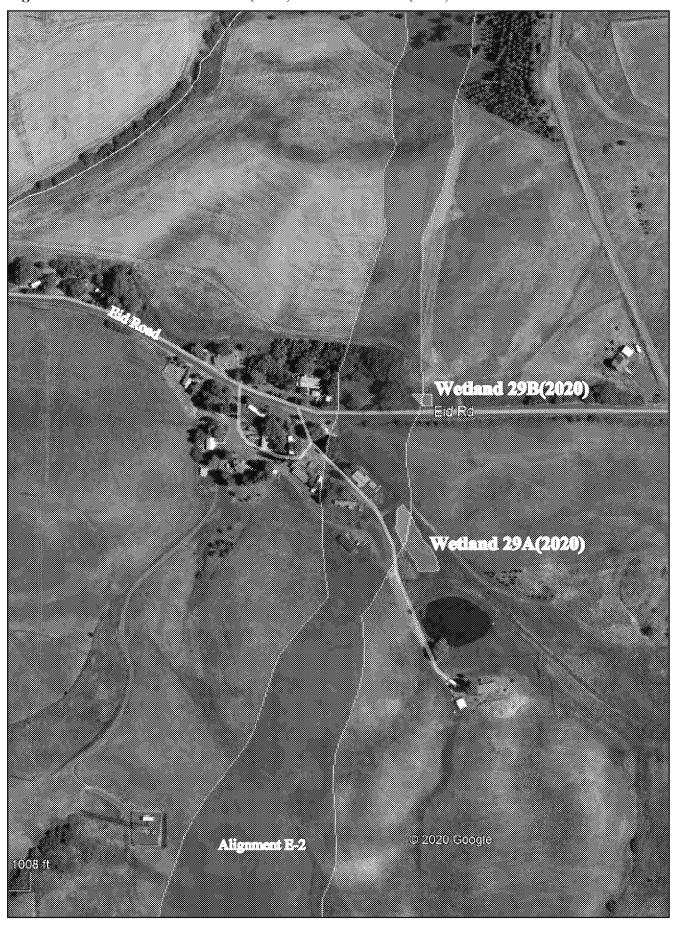


Figure 44. Location of Wetland 35A(2020) and Wetland 35B(2020).

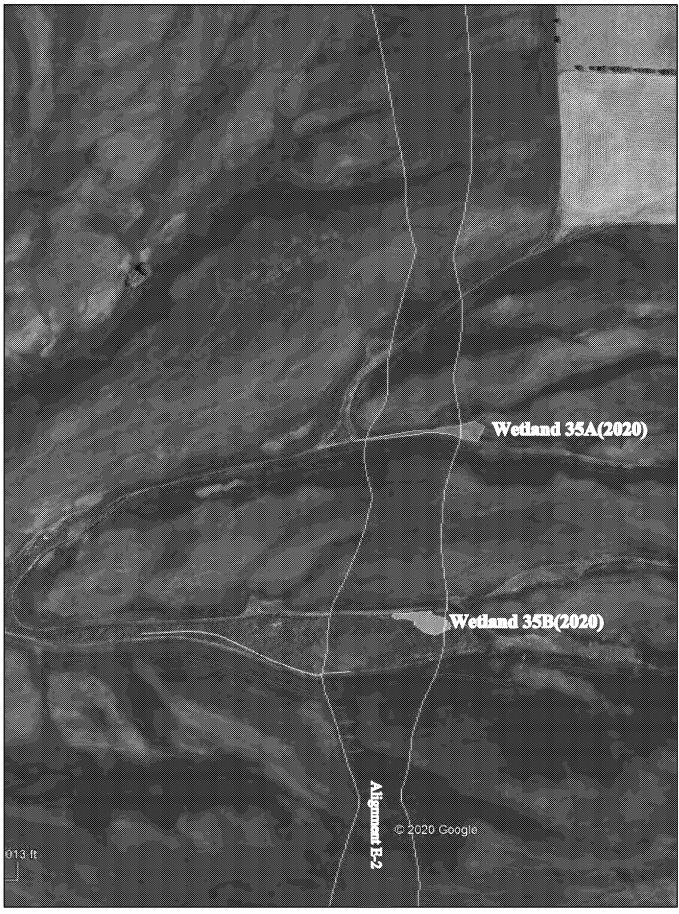
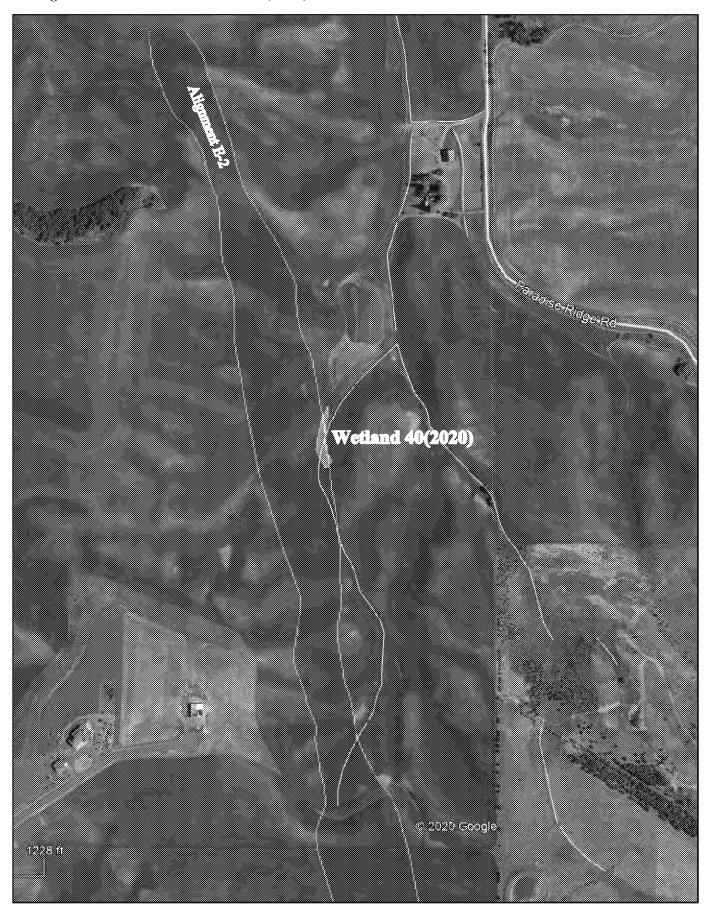


Figure 45. Location of Wetland 40(2020).



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# Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report for Areas within the US-95 E-2 Alignment - September 22, 2020

(Wetland rating forms provided in the June 2020 version 1 report).

# Appendix

- Data test sheets



Shelly Gilmore • 1406 East F Street Moscow ID 83843 • (208) 883-1806 • rpu@lurbonet.com

DATE: September 21, 2020

TO: Shawn Smith, District 2, Idaho Transportation Department (ITD)

FROM: Shelly Gilmore

RE: Thorn Creek Road to Moscow Wetland Delineation of South Connector

associated with the US-95 E-2 Alignment

#### 1.0 BACKGROUND

Shelly Gilmore, Resource Planning Unlimited, Inc. performed the recognizance work, field inventory, and report writing. The work was requested and authorized by Shawn Smith with the Idaho Transportation Department (ITD), Lewiston, Idaho. ITD provided the project area boundaries.

#### 2.0 PROJECT AREA

The project area includes the project limits of the planned south connector, which is designed to connect existing US Highway 95 to the future US-95 E-2 alignment. The legal description of the project area is defined as: Township 38N, Range 5W, Section 7.

## 3.0 SOURCE MATERIALS AND METHODS

Wetland delineation was performed using the Regional Supplement to Corps of Engineers Wetland Delineation Manual: Arid West Region.<sup>1</sup> Field work was performed September 9, 2020.

## 4.0 EXISTING SITE CHARACTERISTICS

The topography of the surrounding area is characterized by gentle rolling hills, primarily in annually cropped farmland. The watershed drains to the South Fork Palouse River through a series of tributaries.

The current US Fish and Wildlife Service National Wetlands Inventory (NWI)<sup>2</sup> for wetlands was reviewed. Riverine wetlands are mapped along an intermittent tributary (identified on the

<sup>&</sup>lt;sup>1</sup> <u>Arid West Regional Supplement to the Corps of Engineers Wetland Delineation Manual</u>. Environmental Laboratory - US Army Corps of Engineers, Vicksburg, MS. ERDC/EL TR-08-28. September 2008 (as updated).

<sup>&</sup>lt;sup>2</sup> US Fish and Wildlife Service National Wetlands Inventory wetland mapper accessed 09/16/2020 at http://www.fws.gov/wetlands/Data/Mapper.html

topographic map). The tributary was previously identified in Thorn Creek Road to Moscow wetland studies as Tributary Q.

#### 5.0 DELINEATION OF WETLANDS AND WATERS OF THE UNITED STATES

Test sites and wetland/nonwetland boundaries were mapped on-site with a handheld GPS unit, with data provided to ITD. Data sheets are included in the appendix.

Wetland C1 is an emergent wetland in an annually cropped agricultural field. The field had been planted to spring peas and harvested this fall. A small area on the field's northern side was sparsely vegetated, had a cracked soil surface, and farm equipment tire tracks presumably left from when the soils were saturated in the spring of the year. Some scented mayweed was present in the wetland boundaries. Test sites (C1 and C2) were used to verify wetland boundaries. Because the soils within the wetland boundaries were not saturated during this field visit, which was performed during the dry period of the growing season, the wetland area was determined to be the area where a spring crop did not survive, and the non-wetland area was based on the survival of the spring pea crop and its chaff, which was still present in the field.

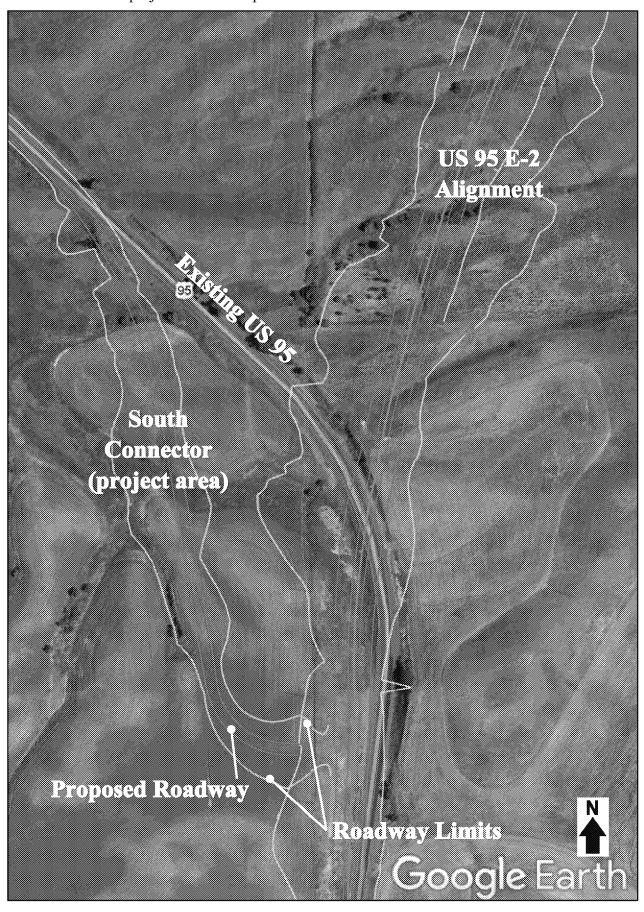
Surface water from Wetland C1 appears to flow in a northwesterly direction through an ephemeral ditch to a grassy drainage way, which then carries surface water flow in a westerly direction to a relatively deep tributary. A small (approximately 10 inches wide) scour area was present in the cropland field and appeared to be ephemeral and caused by rain events and overland flow. The surface water from the wetland would connect downstream to the South Fork Palouse River via a network of drainage ways, culverts, and tributaries.

A tributary was identified within the project area, identified as **Tributary C-1**. The tributary is positioned at the head of a mapped intermittent tributary identified on the topographic map and flows in a northerly direction. The watershed contributing to the tributary is approximately 37 acres in size (as measured from a topographic map). There was head-cut scour at the beginning (upstream end) of the tributary. A small scour line near the bottom of the tributary was used to define the ordinary high water mark (OHWM). This scour line was approximately 2 feet wide (as measured perpendicular to the predicted flow of water); no surface water was flowing at the time of the site visit, nor was the bottom of the tributary wet or damp.

Another tributary was identified just outside of the project area, identified as **Tributary C-2**. The tributary is not identified on the topographic map. There was head-cut scour at the beginning (upstream end) of the tributary. Flowing in a northerly direction, Tributary C-2 connects downstream to Tributary C-1. The watershed contributing to the tributary is collectively the same area as identified in Tributary C-1. A small scour line near the bottom of the tributary was used to define the OHWM. This scour line was approximately 1 foot wide; no surface water was flowing at the time of the site visit, nor was the bottom of the tributary wet or damp.

A series of test sites (C3, C4, C5, and C6) were used to verify that wetlands were not supported in neighboring drainage patterns or along the identified tributaries.

FIGURE 1. General project location map.



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FIGURE 2. Wetland, tributary, and test site (TS) location map.

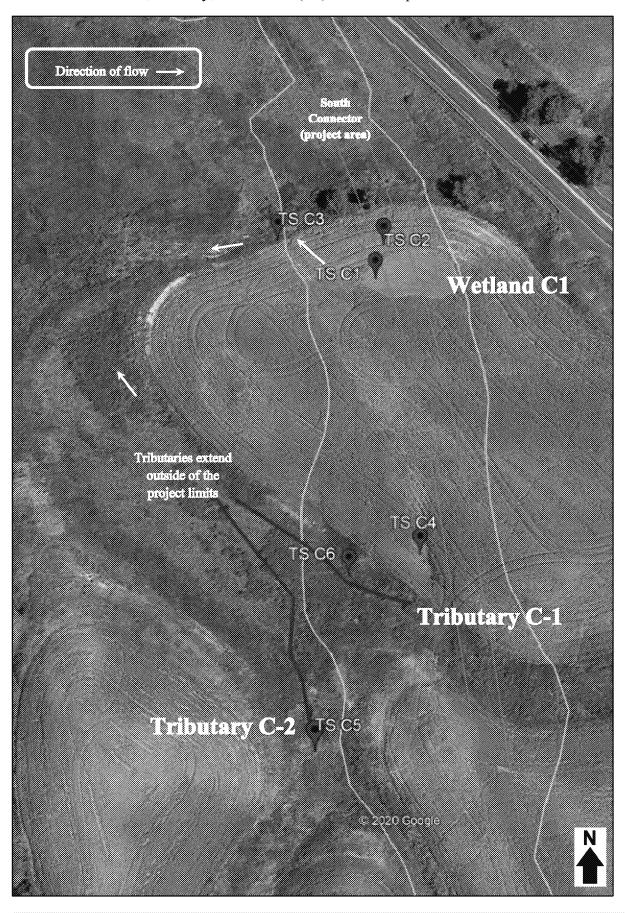
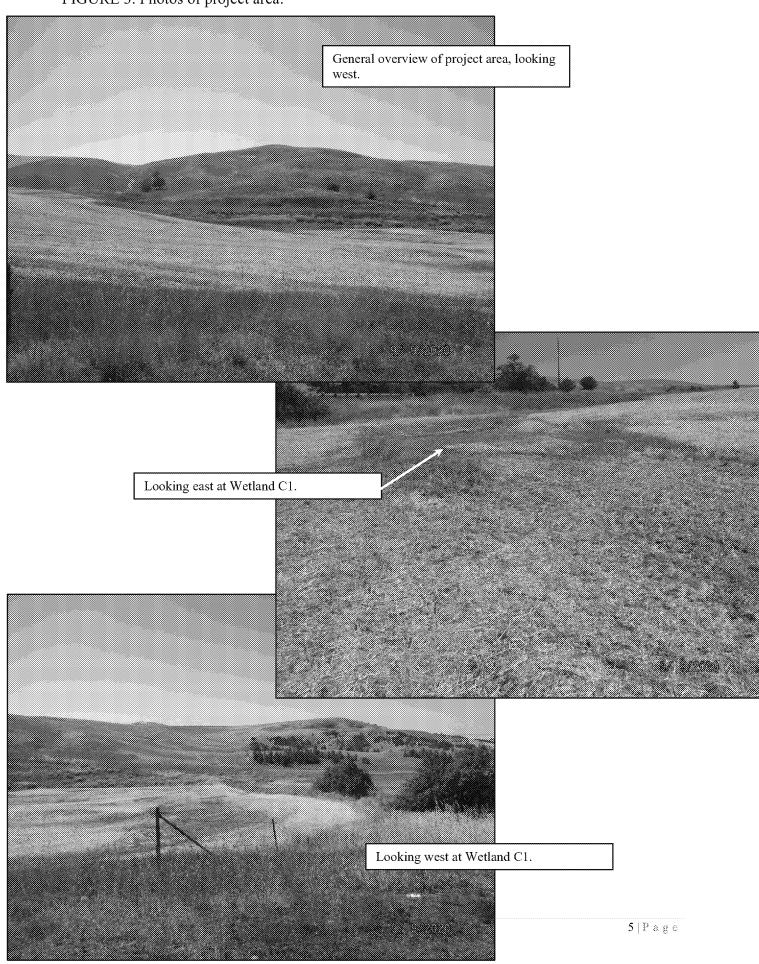


FIGURE 3. Photos of project area.



# Thorn Creek Road to Moscow Wetland Delineation of South Connector associated with the US-95 E-2 Alignment September 21, 2020

Appendix A – Data sheets

Project Site: Thorncreek Rd to Moscow (E-2 a connector)	alignment: s	outh	City/Coun	ty: Moscow/Latah	Sampling Date:	9/9/2020	
Applicant/Owner: Idaho Transportation Departmen	nt			State: ID	Sampling Point:	<u>C1</u>	
Investigator(s): S. Gilmore			Section, T	ownship, Range: 7, T38N, R5W			
Landform (hillslope, terrace, etc.): Hillside		Lo	cal relief (co	ncave, convex, none): concave	Slop	e (%): 10	
Subregion (LRR): <u>Columbia/</u> Snake River	Lat: <u>46</u>	6°39'0.60"N		Long: <u>117° 0'12.79"W</u>	Datum: <u>W</u>	/GS8 <u>4</u>	
<u>Plateau</u> Soil Map Unit Name: Latacho-Thatuna complex				NWI classif	fication: None ide	ntified	
Are climatic / hydrologic conditions on the site typi	cal for this ti	ime of year?	Yes 🏻				
Are Vegetation □, Soil ☒, or Hydrology		icantly disturbed		'Normal Circumstances" present?	Yes	□ No 🏻	
Are Vegetation ☐, Soil ☐, or Hydrology		ally problematic		eeded, explain any answers in Remark			
SUMMARY OF FINDINGS – Attach site map sh	nowing sa	mpling point	locations,	transects, important features,	etc.		
Hydrophytic Vegetation Present?	Yes [	] No ⊠					
Hydric Soil Present?	Yes 2	No □	Is the San	npled Area within a Wetland?	Yes	⊠ No □	
Wetland Hydrology Present?	Yes	No □					
Remarks: Test site located in a farm field that was pla	nted to pea:	s and havested	this fall. The	site has tracks in what appears to be	wet soil areas in th	e spring of the	
year. The site is significantly disturbed bec							
presence is supported: soils and hydrology meadow foxtail would be supported without				as in the project area, hydric vegetation	n such as reed car	narygrass and/o	זנ
VEGETATION – Use scientific names of plants	S.						
Tree Stratum (Plot size:s)	Absolute	Dominant	Indicator	Dominance Test Worksheet:			
1.	% Cover	Species?	<u>Status</u>	North and F Danis and Consis			
2.				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>o</u>	(A)	
3.				Total Number of Dominant			
4.				Species Across All Strata:	1	(B)	
50% =, 20% =		= Total Cove	 r	Percent of Dominant Species			
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:	<u>0</u>	(A/B	3)
1.				Prevalence Index worksheet:			_
2.				Total % Cover of :	Multiply	by:	
3		16444444444	***************************************	OBL species	x1 =		
4				FACW species	x2 =		
5				FAC species	x3 =		
50% =, 20% =		= Total Cove	r	FACU species	x4 =		
Herb Stratum (Plot size:20' x 20')				UPL species	x5 =		
Scented mayweed (Matricaria recutita)	<u>40</u>	<u>yes</u>	<u>NI</u>	Column Totals: (A)		(B)	
2				Prevalence Inde	x = B/A =		
3				Hydrophytic Vegetation Indicator	s:		
4				☐ Dominance Test is >50%	6		
5				☐ Prevalence Index is <3.0	O <sup>1</sup>		
6				Morphological Adaptatio		ortina	
7.				data in Remarks or on a		or an ig	
8				Problematic Hydrophytic	: Vegetation¹ (Expl	ain)	
50% = <u>20</u> , 20% = <u>8</u>	<u>40</u>	= Total Cove	r	,	(	,	
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or prob			
1				be present, unless disturbed or prot	AGITIQUO.		
2			***************************************	Llydrophytic			
50% =, 20% =		= Total Cove	r	Hydrophytic Vegetation	Yes 🗌	No 🛛	
% Bare Ground in Herb Stratum 75	% Cover	r of Biotic Crust	<u>0</u>	Present?			
Remarks: Hydrophytic vegetation is not support from a hillside seep. If the site was not creanarygrass and/or meadow foxtail.				cropped farming practices, site appea ing from other sites in the project area			у

Project Site: Thorncreek Rd to Moscow (alignment E-2: south connector)

SOIL Densi		. 4 . 41-						E 41 '			\		Sar	npling Po	oint:	<u>U1</u>
	ription: (Describe Matrix		aeptn	need	ea to a	ocument the indicat Redox Fea		tirm the abs	sence of ind	icator	'S.)					
Depth (inches)			 D/_		lor (Mai		Type <sup>1</sup>	Loc		vturo	Dom	orko				
( <u>inches)</u> 0-2	Color (moist) 10YR 3/1		<u>%</u> 00	<u>C0</u>	lor (Moi	<u>st)</u> <u>%</u>	<u>i ype</u>	<u>LUC</u>		<u>xture</u> t loam	Rema	arks				
<u>0-2</u> 2-18	10YR 3/1		90	1	 0YR 3/6	<u> </u>	<u>C</u>			l loam						
2-10	10111 0/1	2	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		01110/1	2 19	<u>u</u>	<u> </u>	<u> </u>	loain						
		******									***************************************					
Type: C= Co	ncentration, D=De	epletion,	 , RM=I	Reduce	ed Matr	x, CS=Covered or C	oated San	d Grains.	Location: PL	.=Pore	Lining, M=Mat	rix.				
lydric Soil li	ndicators: (Appli	cable to	o all Li	RRs, u	nless	otherwise noted.)					tors for Proble		Hydric	Soils <sup>3</sup> :		
☐ Histoso	l (A1)					Sandy Redox (S5)					1 cm Muck (As	) (LRF	RC)			
☐ Histic E	pipedon (A2)					Stripped Matrix (S6	i)		1		2 cm Muck (A	10) <b>(LR</b>	RB)			
☐ Black H	listic (A3)					Loamy Mucky Mine	eral (F1)		l		Reduced Verti	c (F18	)			
☐ Hydrog	en Sulfide (A4)					Loamy Gleyed Mat	rix (F2)		1		Red Parent Ma	aterial	(TF2)			
Stratifie	ed Layers (A5) ( <b>LF</b>	RR C)				Depleted Matrix (F3	3)		ļ		Other (Explain	in Rer	narks)			
☐ 1 cm M	uck (A9) ( <b>LRR D</b> )				$\boxtimes$	Redox Dark Surfac	e (F6)									
☐ Deplete	ed Below Dark Sur	rface (A	11)			Depleted Dark Surf	ace (F7)									
Thick D	ark Surface (A12)	)				Redox Depressions	s (F8)				<sup>3</sup> Indicators of h	vdront	vtic ver	netation a	and	
☐ Sandy l	Mucky Mineral (S	1)				Vernal Pools (F9)					wetland hyd					
☐ Sandy	Gleyed Matrix (S4	-)									unless dist	turbed	or probl	lematic.		
Restrictive L	ayer (if present):															
Гуре:	No restrictiv	ve layer	obser	ved.												
Depth (Inches	s):							Hydric Se	oils Present	?		Yes	×	No		l
Remarks:	Soils support hyd	lric soil d	charac	teristic	s.											
HYDROLO	GY															
	rology Indicators	s:														
Primary Indic	ators (minimum of	f one red	quired;	check	all that	apply)			Secondary Indicators (2 or more required)							
Surfac	e Water (A1)					Salt Crust (B11)				] W	ater Marks (B1)	(Rive	rine)			
☐ High W	/ater Table (A2)					Biotic Crust (B12)				] Se	ediment Deposi	ts (B2)	(Riveri	ne)		
Satura	tion (A3)					Aquatic Invertebrate	es (B13)			] Dr	rift Deposits (B3	) (Rive	erine)			
☐ Water	Marks (B1) <b>(Nonr</b>	iverine)	)			Hydrogen Sulfide C	dor (C1)			] Dr	rainage Patterns	s (B10)	)			
Sedime	ent Deposits (B2)	(Nonriv	erine)		$\boxtimes$	Oxidized Rhizosphe	eres along	Living Root	s (C3)	] Dr	y-Season Wate	er Table	e (C2)			
☐ Drift De	eposits (B3) (Non	riverine	e)			Presence of Reduc	ed Iron (C	4)		] Cr	ayfish Burrows	(C8)				
Surface	e Soil Cracks (B6)	)				Recent Iron Reduct	tion in Tille	d Soils (C6)		] Sa	aturation Visible	on Ae	rial Ima	gery (C9	)	
☐ Inunda	tion Visible on Ae	rial Imaç	gery (E	37)		Thin Muck Surface	(C7)			] Sh	nallow Aquitard	(D3)				
☐ Water-	Stained Leaves (E	39)				Other (Explain in R	emarks)			] F/	AC-Neutral Test	(D5)				
Field Observ	ations:															
Surface Wate	er Present?	Yes		No	$\boxtimes$	Depth (inches)	:									
Water Table I	Present?	Yes		No	$\boxtimes$	Depth (inches)	:									
Saturation Pro includes cap	illary fringe)	Yes		No	$\boxtimes$	Depth (inches)	_			-	ogy Present?		Yes		No	
	orded Data (strea nap reviewed.	m gaug	e, mor	nitoring	well, a	erial photos, previous	s inspectio	ns), if availa	ble: Google	Earth	aerial photos, s	oil sun	vey, NV	/I maps,	and	
Remarks:	Weland hydrolog surface was crad					oils dry at the time o	f this site \	visit, but did	present oxida	ation a	long the roots o	of the n	naywee	d and the	soil	
				_												
າຣ Army Cor	ps of Engineers											Ario	ı vvest -	<ul> <li>Version</li> </ul>	2.0	

ED\_014065A\_00000155-00082

Project Site: Thorncreek Rd to Moscow (E-2 a	alignment: so	<u>uth</u>	City/Count	y: <u>Moscow/Latah</u>	Sampling Date: 9/9/2	020
Applicant/Owner: Idaho Transportation Departmen	t			State: ID	Sampling Point: C2	
Investigator(s): S. Gilmore	-		Section, To	ownship, Range: 7, T38N, R5W	, ,	
Landform (hillslope, terrace, etc.): Hillside		Loc	al relief (cor	ncave, convex, none): concave	Slope (%):	<u> 10</u>
<u>Columbia/</u> Subregion (LRR): <u>Snake River</u>	Lat: <u>46°3</u>	39'0.98"N		Long: <u>117° 0'12.66"W</u>	Datum: WGS84	:
Plateau Soil Map Unit Name: Latacho-Thatuna complex				MMI classi	fication: None identified	
Are climatic / hydrologic conditions on the site typic	cal for this tim	e of year?	Yes 🛛	No [] (If no, explain in Re		
Are Vegetation □, Soil ☒, or Hydrology		antly disturbed?	_	Normal Circumstances" present?	Yes 🗆	No ⊠
Are Vegetation [], Soil [], or Hydrology		y problematic?		eded, explain any answers in Remar		
		, ,	(	, <sub>+</sub> ,	,	
SUMMARY OF FINDINGS – Attach site map sh	owing sam	npling point l	locations,	transects, important features,	etc.	
Hydrophytic Vegetation Present?	Yes 🗌	No 🖾				
Hydric Soil Present?	Yes 🗌	No 🛛	Is the Sam	pled Area within a Wetland?	Yes 🗌	No ⊠
Wetland Hydrology Present?	Yes 🗌	No 🛛				
Remarks: Test site located in a farm field (upslope from an annually cropped field, citing that normal				s and havested this fall. The site is sig	gnificantly disturbed beca	use it is in
VEGETATION – Use scientific names of plants	s.					
Tree Stratum (Plot size:s)	Absolute <u>% Cover</u>		Indicator Status	Dominance Test Worksheet:		
1				Number of Dominant Species	<u>o</u>	(A)
2				That Are OBL, FACW, or FAC:	⊻	(^)
3				Total Number of Dominant	1	(B)
4				Species Across All Strata:	<u> </u>	(6)
50% =, 20% =		= Total Cover		Percent of Dominant Species	<u>0</u>	(A/B)
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:	<u> </u>	(/ (/ )
1				Prevalence Index worksheet:		
2				Total % Cover of :	Multiply by:	
3.				OBL species	x1 =	_
4				FACW species	x2 =	_
5				FAC species	x3 =	_
50% =, 20% =		= Total Cover		FACU species	x4 =	_
Herb Stratum (Plot size: 20' x 20')				UPL species	x5 =	_
1. Spring pea chaff	<u>100</u>	<u>yes</u>	<u>NI</u>	Column Totals:(A)	************	_ (B)
2				Prevalence Inde	x = B/A =	
3.				Hydrophytic Vegetation Indicator		
4.				☐ Dominance Test is >50	%	
5.				☐ Prevalence Index is <u>&lt;</u> 3.	$n^1$	
6.					ons <sup>1</sup> (Provide supporting	
7.				data in Remarks or on a		
8.				Problematic Hydrophyti	- \/t-ti1 (F1-i-)	
50% = 50, 20% = 20	100	= Total Cover		☐ Problematic Hydrophyti	c vegetation (Explain)	
Woody Vine Stratum (Plot size: )	100	- Total Cover		<sup>1</sup> Indicators of hydric soil and wetlar		
1.				be present, unless disturbed or pro	blematic.	
2.						
50% = , 20% =	************	= Total Cover		Hydrophytic Vegetation	Yes □ No	, 🖂
<del></del>			0	Present?		
% Bare Ground in Herb Stratum 0		of Biotic Crust	<u>0</u>			
Remarks: Hydrophytic vegetation is not supp	orted at this	test site.				

SOIL Sampling Point: C2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (Moist) <u>%</u> Loc<sup>2</sup> % Type' Texture Remarks 0-18 10YR 2/2 100 Silt loam <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) П Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: No restrictive layer observed. Depth (Inches): Hydric Soils Present?  $\boxtimes$ Remarks: Soils do not support hydric soil characteristics. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?  $\boxtimes$ Yes No Depth (inches): Water Table Present? Yes No  $\boxtimes$ Depth (inches): Saturation Present? Wetland Hydrology Present?  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Google Earth aerial photos, soil survey, NWI maps, and topographic map reviewed. Weland hydrology is not supported at this site. Soils dry at the time of this site visit; site visit is during the dry period of the year, although hydric soils and Remarks: hydrophitic vegetation are not supported. US Army Corps of Engineers Arid West - Version 2.0

Project Site: Thorncreek Rd to Moscow (E-2 connector)	alignment: so	<u>uth</u>	City/Coun	ty: <u>Moscow/Latah</u>	Samplin	g Date:	9/9/2020	<u>)</u>
Applicant/Owner: Idaho Transportation Departmer	<u>nt</u>			State: ID	Sampling	Point:	C3	
Investigator(s): <u>S. Gilmore</u>			Section, T	ownship, Range: 7, T38N, R5W				
Landform (hillslope, terrace, etc.): Drainage pattern		Loc	cal relief (co	ncave, convex, none): concave		Slop	e (%): 5	<u>i</u>
Subregion (LRR): <u>Columbia/</u> Snake River	Lat: <u>46°</u> 3	39'1.05"N		Long: <u>117° 0'14.40"W</u>	Da	tum: <u>W</u>	GS84	
Plateau Soil Map Unit Name: Latacho-Thatuna complex				NWI class	ification: N	lone ider	ntified	
Are climatic / hydrologic conditions on the site typi	ical for this tin	ne of vear?	Yes ⊠			0110 1001	TOTAL STATE OF THE PARTY OF THE	
Are Vegetation □, Soil □, or Hydrology		antly disturbed	_	Normal Circumstances" present?		Yes	⊠ N	o 🗆
Are Vegetation □, Soil □, or Hydrology		ly problematic?		eeded, explain any answers in Remar	ks.)			
		• •	,	•	•			
SUMMARY OF FINDINGS – Attach site map sl	nowing san	npling point	locations,	transects, important features,	, etc.			
Hydrophytic Vegetation Present?	Yes 🏻	No 🗆						
Hydric Soil Present?	Yes 🗌	No 🛛	Is the San	npled Area within a Wetland?		Yes	□ N	o ⊠
Wetland Hydrology Present?	Yes 🏻	No 🗌						
Remarks: Test site located in small westerly sloping of strip between cropland and pastureland.	Irainage patte	rn, appears to	be receiving	seasonal water from a roadway cros	s culvert. T	he test s	ite is a g	rassy
<u> </u>								
VEGETATION – Use scientific names of plant	S. Absolute	Dominant	Indicator	I				
Tree Stratum (Plot size:s)	% Cover	Species?	Status	Dominance Test Worksheet:				
1				Number of Dominant Species		<u>1</u>		(A)
2				That Are OBL, FACW, or FAC:		<u>-</u>		(, ,)
3				Total Number of Dominant		2		(B)
4				Species Across All Strata:		=		(-)
50% =, 20% =		= Total Cover		Percent of Dominant Species		<u>50</u>		(A/B)
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:				
1				Prevalence Index worksheet:				
2				Total % Cover of :		Multiply	by:	
3				OBL species		x1 =		
4				FACW species 100		x2 =	<u>200</u>	
5				FAC species		x3 =		
50% =, 20% =		= Total Cover	•	FACU species 25		x4 =	<u>100</u>	
Herb Stratum (Plot size:20' x 20')				UPL species		x5 =		
Reed canarygrass (Phalaris arundinacea)	<u>100</u>	<u>yes</u>	<u>FACW</u>	Column Totals: 125 (A)			<u>300</u> (B)	
2. <u>Canada thistle (Cirsium arvense)</u>	<u>25</u>	<u>yes</u>	<u>FACU</u>	Prevalence Inc	dex = B/A =	<u>2.4</u>		
3				Hydrophytic Vegetation Indicator	rs:			
4				☐ Dominance Test is >50	%			
5					.0 <sup>1</sup>			
6				Morphological Adaptati	ons¹ (Provid	de suppo	orting	
7	<del></del>			data in Remarks or on a	a separate :	sheet)		
8				☐ Problematic Hydrophyti	ic Vegetatio	n¹ (Expla	ain)	
50% = <u>62.5</u> , 20% = <u>25</u>	<u>125</u>	= Total Cover	•		_		,	
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetlar be present, unless disturbed or pro		y must		
1				55 prosont, unloss disturbed of pro	Sicinduo.			
2		-		Hydrophytic				
50% =, 20% =		= Total Cover		Vegetation	Yes	$\boxtimes$	No	
% Bare Ground in Herb Stratum <u>0</u>	% Cover	of Biotic Crust	<u>0</u>	Present?				
Remarks: Hydrophytic vegetation is support	ed at this test	site.						

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SOIL Sampling Point: C3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Loc<sup>2</sup> Color (moist) Color (Moist) <u>%</u> Remarks % Type' Texture 0-18 10YR 2/2 100 Silt Soils very dry and chalky <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) П Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: No restrictive layer observed. Depth (Inches): Hydric Soils Present?  $\boxtimes$ Soils do not support hydric soil characteristics. Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) M Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?  $\boxtimes$ Yes No Depth (inches): Water Table Present? Yes No  $\boxtimes$ Depth (inches): Saturation Present? Wetland Hydrology Present? Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Google Earth aerial photos, soil survey, NWI maps, and topographic map reviewed. Weland hydrology is supported at this site by 2 secondary indicators. Soils very dry at the time of this site visit-site visit is during the dry period of the year; because hydric soils and hydrophitic vegetation are not supported, did not default to wetland hydrology support because the site visit was performed in the dry time of the year.

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Arid West - Version 2.0

Project Site: Thorncreek Rd to Moscow (E-2 aconnector)	alignment: so	<u>uth</u>	City/Count	y: Moscow/Latah	Sampling Date: 9/9/	<u> 2020</u>	
Applicant/Owner: Idaho Transportation Departmen	<u>t</u>			State: ID	Sampling Point: C4		
Investigator(s): S. Gilmore	-		Section, To	ownship, Range: 7, T38N, R5W			
Landform (hillslope, terrace, etc.): Hillside		Loc	al relief (cor	ncave, convex, none): concave	Slope (%	): <u>10</u>	
Subregion (LRR): Columbial Snake River	Lat: <u>46°3</u>	8'57.52"N		Long: <u>117° 0'12.07"W</u>	Datum: WGS8	<u>4</u>	
Plateau Soil Map Unit Name: Latacho-Thatuna complex				NIM/L alogoifi	cation: None identified	4	
	nal for this tim	o of year?	Yes ⊠	No [] (If no, explain in Rem		<u>u</u>	
Are climatic / hydrologic conditions on the site typic  Are Vegetation □. Soil ☒. or Hydrology		-	_	Normal Circumstances" present?	·	No 157	
		antly disturbed? v problematic?		normal Circumstances present? eded, explain any answers in Remarks	Yes 🗆	No 🛭	
Are Vegetation ☐, Soil ☐, or Hydrology		y problematic?	(II rie	eded, explain any answers in Remarks	5.)		
SUMMARY OF FINDINGS – Attach site map sh	owing sam	pling point l	locations,	transects, important features, e	etc.		
Hydrophytic Vegetation Present?	Yes 🏻	No 🗆					
Hydric Soil Present?	Yes 🗌	No 🗵	Is the Sam	pled Area within a Wetland?	Yes 🗌	No ⊠	
Wetland Hydrology Present?	Yes 🗌	No 🛛					
Remarks: Test site located in a farm field that was planted to peas and havested this fall. The site is significantly disturbed because it is in an annually cropped field, citing that normal circumstances are not present.							
VEGETATION – Use scientific names of plants							
Tree Stratum (Plot size:s)	Absolute % Cover		Indicator Status	Dominance Test Worksheet:			
1				Number of Dominant Species		(0)	
2				That Are OBL, FACW, or FAC:	<u>1</u>	(A)	
3.				Total Number of Dominant			
4.				Species Across All Strata:	<u>1</u>	(B)	
50% = , 20% =		= Total Cover		Percent of Dominant Species			
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:	<u>100</u>	(A/B)	
1.				Prevalence Index worksheet:			
2.				Total % Cover of :	Multiply by:		
3.	***************************************	*************		OBL species	x1 =		
4.				FACW species	x2 =	<del></del>	
5.				FAC species	x3 =		
50% =, 20% =		= Total Cover		FACU species	x4 =	_	
Herb Stratum (Plot size: 20' x 20')				UPL species	x5 =		
Field horsetail (Equisetum arvense) FAC	<u>100</u>	<u>yes</u>	<u>FAC</u>	Column Totals: (A)		(B)	
2. <u>Scented mayweed (Matricaria recutita)</u>	<u>10</u>	<u>no</u>	<u>NI</u>	Prevalence Index	= B/A =		
3				Hydrophytic Vegetation Indicators	::		
4					)		
5				☐ Prevalence Index is ≤3.0	1		
6				Morphological Adaptation	ns <sup>1</sup> (Provide supporting	1	
7				data in Remarks or on a		,	
8.				☐ Problematic Hydrophytic	Vegetation <sup>1</sup> (Evoluin)		
50% = 55, 20% = 22	110	= Total Cover		— Troblematic Hydrophytic	vegetation (Explain)		
Woody Vine Stratum (Plot size: )	110	Total Gover		<sup>1</sup> Indicators of hydric soil and wetland			
1.				be present, unless disturbed or probl	lematic.		
2.							
				Hydrophytic	Yes ⊠ N	。 🗆 🗎	
50% =, 20% =		= Total Cover		Vegetation Present?	23 14	• ⊔	
% Bare Ground in Herb Stratum 0	% Cover o	of Biotic Crust	<u>0</u>				
Remarks: Hydrophytic vegetation is supported	ed at this test	site, Equisetum	n in a dense	patch along hillside slope.			

SOIL Sampling Point: C4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Loc<sup>2</sup> Color (moist) Color (Moist) <u>%</u> Texture % Type' Remarks 0-19 10YR 2/2 99 10YR 4/4 1  $\underline{\mathsf{c}}$ M Silt loam <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) П Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: No restrictive layer observed. Depth (Inches): Hydric Soils Present?  $\boxtimes$ Remarks: Soils do not support hydric soil characteristics, hardly detectable (very few) redox features. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?  $\boxtimes$ Yes No Depth (inches): Water Table Present? Yes No  $\boxtimes$ Depth (inches): Saturation Present? Wetland Hydrology Present?  $\boxtimes$ Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Google Earth aerial photos, soil survey, NWI maps, and topographic map reviewed. Weland hydrology is not supported at this site. Soils dry at the time of this site visit; site visit is during the dry period of the year, although hydric soils and Remarks: hydrophitic vegetation are not supported. US Army Corps of Engineers Arid West - Version 2.0

Project Site: Thorncreek Rd to Moscow (E-2 a	alignment: so	uth	City/Coun	ty: Moscow/Latah	Samplin	g Date: <u>9/9/2</u>	2020
Applicant/Owner: Idaho Transportation Departmen	<u>ıt</u>			State: ID	Sampling	Point: C5	
Investigator(s): S. Gilmore			Section, T	ownship, Range: 7, T38N, R5W			
Landform (hillslope, terrace, etc.): Drainage pattern		Loc	cal relief (co	ncave, convex, none): concave		Slope (%)	: <u>10</u>
Subregion (LRR): <u>Columbia/</u> Snake River Plateau	Lat: <u>46°</u>	38'55.32"N		Long: <u>117° 0'13.78"W</u>	Da	tum: WGS84	<u>1</u>
Soil Map Unit Name: Latacho-Thatuna complex				NWI class	ification: N	one identified	
Are climatic / hydrologic conditions on the site typi	cal for this tin	ne of year?	Yes 🏻	No 🔲 (If no, explain in Re	emarks.)		
Are Vegetation ☐, Soil ☐, or Hydrology	signific	antly disturbed	? Are '	'Normal Circumstances" present?		Yes 🛚	No 🔲
Are Vegetation ☐, Soil ☐, or Hydrology	natural	ly problematic?	(If ne	eeded, explain any answers in Remar	ks.)		
SUMMARY OF FINDINGS – Attach site map sh	nowing san	npling point	locations,	transects, important features	, etc.		
Hydrophytic Vegetation Present?	Yes 🏻	No 🗆					
Hydric Soil Present?	Yes 🗌	No 🖾	Is the San	npled Area within a Wetland?		Yes 🗌	No 🖾
Wetland Hydrology Present?	Yes 🏻	No 🗌					
Remarks: Test site located in small southwesterly slop		pattern, appea	ars to be rec	eiving seasonal water small upland a	gricultural w	vatershed. Dra	ainage
pattern is between annually cropped agricu	Itural fields.						
VEGETATION – Use scientific names of plants	S. Absolute	Dominant	Indicator	Ī			
Tree Stratum (Plot size:s)	% Cover	Species?	Status	Dominance Test Worksheet:			
1				Number of Dominant Species		2	(A)
2				That Are OBL, FACW, or FAC:		<u> </u>	(^)
3				Total Number of Dominant		2	(B)
4				Species Across All Strata:		<b>4</b>	(D)
50% =, 20% =		= Total Cover		Percent of Dominant Species		100	(A/B)
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:			(,,,,,
1				Prevalence Index worksheet:			
2		***************************************		Total % Cover of :		Multiply by:	
3				OBL species		x1 =	
4				FACW species		x2 =	
5				FAC species		x3 =	
50% =, 20% =		= Total Cover	•	FACU species		x4 =	_
Herb Stratum (Plot size:20' x 20')				UPL species		x5 =	
Meadow foxtail (Alopecurus pratensis)	<u>100</u>	<u>yes</u>	FACW	Column Totals: (A)		*********	(B)
2. Field horsetail (Equisetum arvense)	<u>50</u>	<u>yes</u>	<u>FAC</u>	Prevalence Inde	ex = B/A = _		
3				Hydrophytic Vegetation Indicato	rs:		
4	***************************************			☑ Dominance Test is >50	%		
5				☐ Prevalence Index is ≤3	.0 <sup>1</sup>		
6				Morphological Adaptati	ons¹ (Provid	de supporting	
7				data in Remarks or on a	a separate s	sheet)	
8				☐ Problematic Hydrophyti	ic Vegetatio	n <sup>1</sup> (Explain)	
50% = <u>75</u> , 20% = <u>30</u>	<u>150</u>	= Total Cover		1			
Woody Vine Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetlar be present, unless disturbed or pro		y must	
1							
2				Hydrophytic			
50% =, 20% =		= Total Cover		Vegetation	Yes	⊠ No	· 🗆
% Bare Ground in Herb Stratum <u>0</u>	% Cover	of Biotic Crust	<u>0</u>	Present?			
Remarks: Hydrophytic vegetation is support	ed at this test	site.					

SOIL Sampling Point: C5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (Moist) <u>%</u> Loc<sup>2</sup> % Type' Texture Remarks 0-18 10YR 2/2 100 Silt loam <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: 1 cm Muck (A9) (LRR C) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) П Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: No restrictive layer observed. Depth (Inches): Hydric Soils Present?  $\boxtimes$ Soils do not support hydric soil characteristics. Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) M Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?  $\boxtimes$ Yes No Depth (inches): Water Table Present? Yes No  $\boxtimes$ Depth (inches): Saturation Present? Wetland Hydrology Present? Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Google Earth aerial photos, soil survey, NWI maps, and topographic map reviewed. Weland hydrology is supported at this site by 2 secondary indicators. Soils very dry at the time of this site visit-site visit is during the dry period of the year; because hydric soils and hydrophitic vegetation are not supported, did not default to wetland hydrology support because the site visit was performed in the dry time of the year. Arid West - Version 2.0 US Army Corps of Engineers

Project Site: Thorncreek Rd to Moscow (E-2 connector)	alignment: so	<u>outh</u>	City/Coun	ty: Moscow/Latah	Sampling Date:	9/9/2020
Applicant/Owner: Idaho Transportation Departmen	<u>nt</u>			State: ID	Sampling Point:	<u>C6</u>
Investigator(s): S. Gilmore			Section, T	ownship, Range: 7, T38N, R5W		
Landform (hillslope, terrace, etc.): <u>Drainage pattern</u>		Lo	cal relief (co	ncave, convex, none): concave	Slop	oe (%): 10
Subregion (LRR): Snake River Plateau	Lat: <u>46°</u>	38'57.28"N		Long: <u>117° 0'13.23"W</u>	Datum: <u>W</u>	<u>/GS84</u>
Soil Map Unit Name: Latacho-Thatuna complex				NWI class	sification: Riverine	
Are climatic / hydrologic conditions on the site typi	ical for this tir	me of year?	Yes 🏻	No ☐ (If no, explain in Re	əmarks.)	
Are Vegetation ☐, Soil ☐, or Hydrology	☐ signific	antly disturbed	d? Are	"Normal Circumstances" present?	Yes	⊠ No □
Are Vegetation ☐, Soil ☐, or Hydrology	☐ natura	lly problematic	? (If ne	eeded, explain any answers in Rema	rks.)	
					,	
SUMMARY OF FINDINGS – Attach site map si			locations	, transects, important features	, etc.	
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes ☑ Yes ☐		la tha San	nnlad Aras within a Motland?	Yes	□ No ⊠
Wetland Hydrology Present?	Yes ☐ Yes ☒		is the Sai	npled Area within a Wetland?	res	
			4- (			- I D
Remarks: Test site located in small southwesterly slo pattern is between annually cropped agricu		e pattern, appe	ars to be rec	eiving seasonal water small upland a	igricultural watersne	d. Drainage
VEGETATION – Use scientific names of plant	s.					
Tree Stratum (Plot size:s)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:		
1				Number of Dominant Species	4	/A)
2				That Are OBL, FACW, or FAC:	<u>1</u>	(A)
3				Total Number of Dominant	1	(B)
4				Species Across All Strata:	<u> </u>	(5)
50% =, 20% =		= Total Cove	r	Percent of Dominant Species	100	(A/B)
Sapling/Shrub Stratum (Plot size:)				That Are OBL, FACW, or FAC:		
1				Prevalence Index worksheet:		
2				Total % Cover of :	Multiply	by:
3				OBL species	x1 =	
4	***************************************	***************************************	***************************************	FACW species	x2 =	000000000000000000000000000000000000000
5				FAC species	x3 =	
50% =, 20% =		= Total Cove	r	FACU species	x4 =	
Herb Stratum (Plot size: 20' x 20')				UPL species	x5 =	
Reed canarygrass (Phalaris arundinacea)	<u>100</u>	<u>yes</u>	<u>FACW</u>	Column Totals: (A)		(B)
2. Canada thistle (Cirsium arvense)	<u>20</u>	<u>no</u>	<u>FACU</u>	Prevalence Ind		
3				Hydrophytic Vegetation Indicate	rs:	
4	***********	***************************************	*************	☐ Dominance Test is >50	1%	
5				☐ Prevalence Index is ≤3	3.0 <sup>1</sup>	
6				Morphological Adaptat		orting
7				data in Remarks or on	a separate sneet)	
8				☐ Problematic Hydrophyl	ic Vegetation¹ (Expl	ain)
50% = <u>60</u> , 20% = <u>24</u>	<u>120</u>	= Total Cove	r	<sup>1</sup> Indicators of hydric soil and wetla	nd hydrology must	
Woody Vine Stratum (Plot size:)				be present, unless disturbed or pro		
1	***************************************	***************************************	***********			
2				Hydrophytic	Vos KTA	No 🗀
50% =, 20% =		= Total Cove		Vegetation Present?	Yes 🛚	No 🗌
% Bare Ground in Herb Stratum 0	% Cover	of Biotic Crust	<u>0</u>			
Remarks: Hydrophytic vegetation is support	ed at this tes	t site. Some E	quisetum at	the field edge near the test plot area.		

SOIL Sampling Point: C6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Matrix (inches) Color (moist) Color (Moist) <u>%</u> Loc<sup>2</sup> % Type' Texture Remarks 0-20 10YR 2/2 100 Silt loam <sup>2</sup>Location: PL=Pore Lining, M=Matrix. <sup>1</sup>Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: 1 cm Muck (A9) (LRR C) Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) 1 cm Muck (A9) (LRR D) Redox Dark Surface (F6) П Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8) <sup>3</sup>Indicators of hydrophytic vegetation and Vernal Pools (F9) Sandy Mucky Mineral (S1) wetland hydrology must be present, Sandy Gleyed Matrix (S4) unless disturbed or problematic. Restrictive Layer (if present): Type: No restrictive layer observed. Depth (Inches): Hydric Soils Present?  $\boxtimes$ Soils do not support hydric soil characteristics. Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Marks (B1) (Riverine) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) M Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry-Season Water Table (C2) Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-Neutral Test (D5) Field Observations: Surface Water Present?  $\boxtimes$ Yes No Depth (inches): Water Table Present? Yes No  $\boxtimes$ Depth (inches): Saturation Present? Wetland Hydrology Present? Yes No  $\boxtimes$ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Google Earth aerial photos, soil survey, NWI maps, and topographic map reviewed. Weland hydrology is supported at this site by 2 secondary indicators. Soils very dry at the time of this site visit-site visit is during the dry period of the year; because hydric soils and hydrophitic vegetation are not supported, did not default to wetland hydrology support because the site visit was performed in the dry time of the year. Arid West - Version 2.0 US Army Corps of Engineers

ED\_014065A\_00000155-00092



# Memo – OHWM Delineation

**To:** Shawn Smith, ITD District 2

From: Michelle Anderson, Anderson Environmental Consulting LLC

Date: 2020/09/28

Re: Thorncreek to Moscow Ordinary-High-Water-Mark Delineation

## 1. Purpose:

This memo explains the method used to determine the ordinary high-water mark (OHWM) of the tributaries and square feet of impacts presented in the 404 Permit Application.

# 2. Background:

The US-95 Thorncreek Road to Moscow project will realign 6.34 miles of US-95 just south of the City of Moscow. The new US-95 alignment will be east of existing US-95 and approximately 5.86 miles in length. Wetlands were originally delineated by Resource Planning Unlimited, Inc. using the US Army Corps of Engineers (USACE) methodology, Regional Supplement to Corps of Engineers Wetland Delineation Manual: Arid West Region in 2005, and was then reevaluated in 2012 and again in 2019/2020 (Gilmore, 2005 and 2012). Tributaries in the project area were identified and characterized during the 2005 wetland studies and the Stream Assessment Report prepared by Alta Science & Engineering, Inc., in 2018 (Alta, 2018).

## 3. Methodology:

The US-95 Thorncreek to Moscow 404 Permit Application provides an OHWM which is used to calculate impacts to waters of the US (WOTUS). The OHWM boundaries were identified using a combination of methods and sources including the following:

- Stream Assessment Report (Alta 2018)-Used wetted width, field data and photos.
- OHWM measurements taken during site visit by ITD and USACE in August 2020
- OHWM measurements taken during AEC fieldwork in September 2020. This included tributaries not covered by the previously mentioned reports or site visits.
- ITD used LIDAR derived topographic maps with 1-foot contours to calculate tributary alignment and lengths.

#### 3.1. Alta Stream Assessment (April 2018)

The Alta Stream Assessment field data was collected during rainfall events in April of 2018. Wetted width was collected in the field, typically at two sample locations on either side of the alignment for each tributary (except for Tributaries AA, Thorn Creek and Tributary P). Photos were taken at each sample location which showed the relation of the wetted width to the bed and bank, showed absence or change in vegetation, signs of scour and topography.

Stream/wetted width measurements that were available were summed and averaged for each tributary. Where the wetted width was measured within a wetland, such as Wetland 29A, the width was not considered in the sum or average. Instead a OHWM measurement taken during the ITD/USACE site visit in August 2020 was combined

with the other tributary widths data to determine the average OHWM for Tributary U. A map of sample locations and data table showing wetted width are attached.

## 3.2. ITD/USACE August 2020 Site Visit:

On August 25<sup>th</sup> and 26<sup>th</sup>, 2020 ITD staff, consultants, Shane Skaar of the USACE, and Alison Young of NRCS, performed a field verification of delineated wetlands throughout the proposed alignment. Although this site visit's primary purpose was to verify wetland boundaries, tributaries were also evaluated and several OHWM measurements were measured on Tributary U near Eid Road, as previously described.

#### 3.3. AEC September 2020 OHWM Delineation:

Several streams that will be impacted by the project were not evaluated in the Alta Stream Assessment (Alta 2018), therefore; Anderson Environmental Consulting, LLC (AEC) identified the OHWM for the following Tributaries:

- Thorn Creek
- Tributary P
- Tributary AA

Jacob Taylor of Anderson Environmental Consulting, LLC delineated the OHWM for the tributaries on August 14<sup>th</sup>, 2020 based on methods identified in A Field Guide to the Identification of the Ordinary-High-Watermark (OHWM) in the Arid West Region of the Western United States (USACE, 2008).

Prior to field work, imagery was analyzed in the project area. Imagery included the National Agricultural Imagery Program (NAIP) 2019 data for Latah County, as well as high resolution aerial imagery collected by Aero-Graphics in 2016. LIDAR derived topographic maps with 1-foot contours was also reviewed.

In the field, cross sections were chosen at locations along the tributaries above and below water regime changes, such as confluences between tributaries, wetlands or seeps. The cross sections, including OHWM, low-flow channels, and active floodplain areas, were drawn on data sheets and recorded using a Trimble Geo 7X handheld GPS. OHWM indicators present were documented on the attached data sheets.

**Thorn Creek**: Four cross sections were recorded along Thorn Creek. This perennial tributary was generally wider and contained more surface water farther north in the project area. As the tributary flows further south in the project area the channel narrows and the surface water is more intermittent in nature, with sections of dry channel at the time of delineation. The average width at OHWM for Thorn Creek is 58 inches or 4.8 feet.

**Tributary P:** Five cross sections were recorded along Tributary P from its' headwater to its' confluence with Thorn Creek. No surface water was observed at the time of delineation. The channel width is relatively consistent and the average OHWM is 30 inches or 2.5 feet.

**Tributary AA:** Two cross sections were recorded on Tributary AA within the project extent, one above and one below wetland 40b. This tributary flows through agricultural fields at the northern end of the project. There is a small seep within the wetland and surface water was flowing downstream of the wetland at the time of delineation. The channel Tributary AA is relatively consistent throughout the project area. The average width at OHWM is 26 inches or 2.2 feet.

See **Table 1** for summary of OHWM measurements taken during the AEC site visit. Photos of cross sections are provided below. Delineation map, a table of GPS point locations, and data sheets are attached.

Table 1: Summary of Tributary Cross Sections (CS)

		Thor	n Cree	≥k	
CS1	CS2	CS3	CS4		Average
26	25	112	69	n/a	58
		Trib	utary	Р	
CS5	CS6	CS7	CS8	CS9	Average
26	46	29	24	23	30
		Tribu	itary A	NΑ	
CS10	CS11				Average

#### 4. Results

The evaluation of OHWM widths were used to determine the average OHWM width and to calculate the square feet of impacts to tributaries. The results are presented in **Table 2** below:

**Table 2. Summary of OHWM Widths** 

Tributary Name	Stationing Beginning	Stationing Ending	OHWM (ft)	OHWM Source
Thorn Creek	44+65	59+38	4.83	AEC OHWM delineation Sept 2020
Trib P	59+35	89+75	2.50	AEC OHWM delineation Sept 2020
Trib U	138+86	140+80	4.87	Alta Stream Assessment Report (and field notes) Spring of 2018, and Measurements taken in the field during USACE site visit in August 2020
Trib U	142+63	143+14	8.13	Measurements taken in the field during USACE site visit in August 2020
Trib U	Eid Rd stn 20		8.13	Measurements taken in the field during USACE site visit in August 2020
Trib U	158+19	160+62	2.10	Alta Stream Assessment Report (and field notes) Spring of 2018
Trib V	174+08	174+97	3.45	Alta Stream Assessment Report (and field notes) Spring of 2018
Trib W	179+91	181+31	16.20	Alta Stream Assessment Report (and field notes) Spring of 2018
Trib W	209+52	212+59	4.75	Alta Stream Assessment Report (and field notes) Spring of 2018
Trib X	233+51	233+76	2.20	Alta Stream Assessment Report (and field notes) Spring of 2018
Trib AA	272+66	281+03	2.17	AEC OHWM delineation Sept 2020
Trib Q	Connector Stn 12		2.00	Shelly Gilmore Wetland Addendum for Connector Sept 2020



Photo 1: Thorn Creek, CS1, AEC delineation



Photo 3: Thorn Creek, CS1, AEC delineation



Photo 5: Thorn Creek, CS2, AEC delineation



Photo 2: Thorn Creek, CS1, AEC delineation

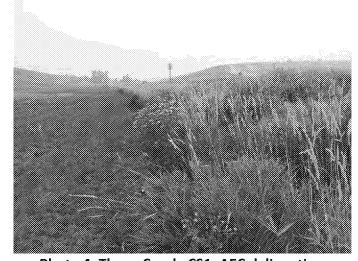


Photo 4: Thorn Creek, CS1, AEC delineation

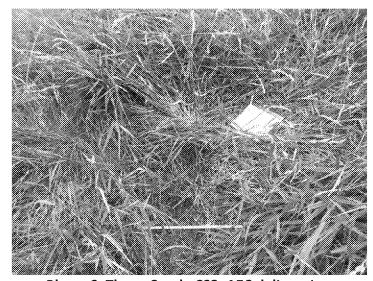


Photo 6: Thorn Creek, CS2, AEC delineation



Photo 7: Thorn Creek, CS2, AEC delineation



Photo 9: Thorn Creek, CS3, AEC delineation



Photo 11: Thorn Creek, CS3, AEC delineation



Photo 8: Thorn Creek, CS2, AEC delineation



Photo 10: Thorn Creek, CS3, AEC delineation



Photo 12: Thorn Creek, CS3, AEC delineation



Photo 13: Thorn Creek, CS4, AEC delineation



Photo 15 Thorn Creek, CS4, AEC delineation



Photo 17: Tributary P, CS5, AEC delineation



Photo 14 Thorn Creek, CS4, AEC delineation



Photo 16: Tributary P, CS5, AEC delineation



Photo 18: Tributary P, CS5, AEC delineation



Photo 19: Tributary P, CS6, AEC delineation



Photo 21: Tributary P, CS6, AEC delineation



Photo 23: Tributary P, CS7, AEC delineation



Photo 20: Tributary P, CS6, AEC delineation

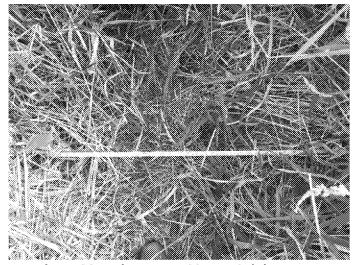


Photo 22: Tributary P, CS7, AEC delineation



Photo 24: Tributary P, CS7, AEC delineation



Photo 25: Tributary P, CS8, AEC delineation



Photo 27: Tributary P, CS8, AEC delineation



Photo 29: Tributary P, CS9, AEC delineation



Photo 26: Tributary P, CS8, AEC delineation



Photo 28: Tributary P, CS9, AEC delineation



Photo 30: Tributary P, CS9, AEC delineation

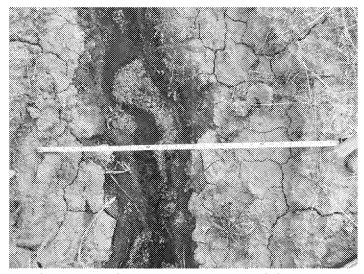


Photo 31: Tributary AA, CS10, AEC delineation



Photo 33: Tributary AA, CS10, AEC delineation



Photo 35: Tributary AA, CS11, AEC delineation



Photo 32: Tributary AA, CS10, AEC delineation

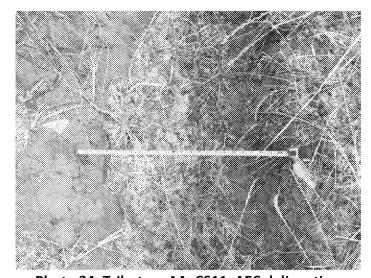


Photo 34: Tributary AA, CS11, AEC delineation



Photo 36: Tributary AA, CS11, AEC delineation



Photo 37: Tributary Q, Sample Point 12B, Alta Report

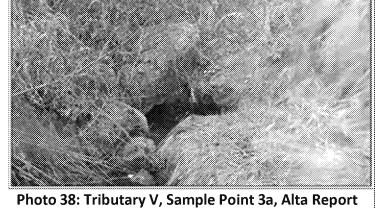




Photo 39: Tributary W, Sample Point 5a, Alta Report



Photo 40: Tributary W, Sample Point 6a, Alta Report

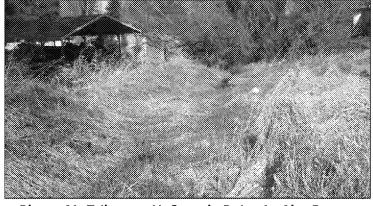


Photo 41: Tributary U, Sample Point 1a Alta Report



Photo 42: Tributary U, USACE Site Visit

# Order of Attachments

- 1. AEC OHWM Delineation Map
- 2. AEC GPS Point Table
- 3. AEC OHWM Datasheets
- 4. Alta Sampling Location Map
- 5. Alta Data Table

PG. 11



Thorn Creek	1		ohwm	46.63148427	
Thorn Creek	1		ohwm	46.63148337	-116.998575
Thorn Creek	1		Active Floodplain	46 63148568	-116 9985606
Thorn Creek	2	4	ohwm	46.63316328	-116.9990885
Thorn Creek	2		ohwm	46.63316515	
Thorn Creek	2		Active Floodplain	46.63317107	-116.9990625
Thorn Creek	3		ohwm	46 63519362	-116.9997605
Thorn Creek	3	8	ohwm	46.63518575	-116.9997939
Thorn Creek	3	9	Low-Flow Channel	46.63518904	-116.999781
Thorn Creek	4	10	ohwm	46.63562514	-116.9993753
Thorn Creek	4	11	ohwm	46.63563236	-116.999395
Tributary P	5	12	ohwm	46.63610408	-116.9999857
Tributary P	5	13	ohwm	46.63610378	-116.9999948
Tributary P	6	14	ohwm	46.64373033	-117.0013937
Tributary P	6	15	ohwm	46.64373014	-117.0014093
Tributary P	6	16	Active Floodplain	46.64372975	-117.0014234
Tributary P	7	17	ohwm	46.6415599	-117.00162
Tributary P	7	18	ohwm	46.64155624	-117.0016283
Tributary P	8	19	ohwm	46.64065758	-117 00236
Tributary P	8	20	ohwm	46.64065305	-117.0023586
Tributary P	8	21	Active Floodplain	46.6406377	-117.0023667
Tributary P	8	22	Active Floodplain	46.64066135	-117.0023596
Tributary P	9	23	ohwm	46.63983052	-117.0012448
Tributary P	9	24	ohwm	46.63983178	-117.0012373
Tributary AA	10	25	ohwm	46.69574039	-116.9937407
Tributary AA	10	26	ohwm	46.69574038	-116.9937321
Tributary AA	11	27	ohwm	46 69429953	-116.9937799
Tributary AA	11	28	ohwm	46.69430146	-116.9937729

# Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: Thorn crack To Mosaw Project Number:	Date: 9/14/20 Town:	Time: £:30 AM State: $\overline{LD}$
Stream: Thorn Crock	Photo begin file#:	Photo end file#:
Investigator(s): Jacob Taylo/	Placemalk 3	Phicralk 3
Y N Do normal circumstances exist on the site?	Location Details: 5. End of Posact	
Y [] / N [X] Is the site significantly disturbed?	Projection: ID sklepla Coordinates: see Ma	~ Datum: NAD 83
Potential anthropogenic influences on the channel syst	em:	
Brief site description: Mostly reed canary Hay Field to west	grass ditchlac	parallel += Us-95.
☐ Vegetation maps       ☐ Results         ☑ Soils maps       ☐ Most regarded         ☐ Rainfall/precipitation maps       ☐ Gage h	per;	sis 25-year events and the
Other studies		
Hydrogeomorphic F	loodplain Units	
Active Floodplain	. Low Terrace .	
Low-Flow Channels	OHWM Paleo Chan	nel
Procedure for identifying and characterizing the flood	plain units to assist in ide	entifying the OHWM:
<ol> <li>Walk the channel and floodplain within the study area to vegetation present at the site.</li> <li>Select a representative cross section across the channel.</li> <li>Determine a point on the cross section that is characteria. Record the floodplain unit and GPS position.</li> <li>Describe the sediment texture (using the Wentworth floodplain unit.</li> <li>Identify any indicators present at the location.</li> <li>Repeat for other points in different hydrogeomorphic floodplain the OHWM and record the indicators. Record Mapping on aerial photograph Digitized on computer</li> </ol>	Draw the cross section and stic of one of the hydroged class size) and the vegetation oodplain units across the c	label the floodplain units. omorphic floodplain units. on characteristics of the

Project ID: 72/M Cross section ID: 65	1 Date: 9/14/20 Time: 9:30 A
Cross section drawing:	
Hay Field	V5-95
<u>OHWM</u>	
GPS point: <u>†0 1-2</u>	
Indicators:	□ Break in bank slope     □ Other:    □ Other:    □
Comments: Channel scar, bed and bank, suit	face water present in channel,
0HWN 26"	
Floodplain unit:    Low-Flow Channel	Active Floodplain
GPS point: DD 3	1
Characteristics of the floodplain unit:  Average sediment texture: fine to adding so the floodplain unit:  Total veg cover: % Tree: % Shrub:  Community successional stage:  NA  Early (herbaceous & seedlings)	% Herb: 100 % Mid (herbaceous, shrubs, saplings)  X Late (herbaceous, shrubs, mature trees)
Indicators:    Mudcracks   Ripples   Drift and/or debris   Presence of bed and bank   Benches	Soil development     Surface relief     Other:     Other:     Other:
Comments:	
Typha latifolia growing along the and equiretum arverse growing on the	ellace within Flood, phin.

Project ID: T2M	Cross section ID:	52 I	Date: 9/14/20	Time: 10:4	5 An
Cross section drawing	:		•		
west East		Fuy 1	Active summ	FP Ux-9	5
<u>OHWM</u>					
GPS point: <u>ID 4-5</u>					
Indicators:  Change in avera  Change in veget  Change in veget	ation species	☑ Break in ☐ Other:	oank slope		
Comments: 25" offwm. Bed + No culture water	bank w/ real	5-10°6 V	ng covil, equisely	in + Reg	
Floodplain unit:	Low-Flow Channel	Active Fl	oodplain [	Low Terrace	
Characteristics of the floor Average sediment texture Total veg cover: Community successional NA Early (herbaceon	e: Fine to medium 5 % Tree:% St stage:	Mid (hert	Herb://DD_%  paceous, shrubs, sappaceous, shrubs, ma		
Indicators:  Mudcracks Ripples Drift and/or deb Presence of bed Benches		Soil deve	-		
Comments:	. #	•			
Small terrace	en busy side	et then	cl w/ Reg	Ĵ	

Project ID: 72 M Cross section ID: 2	253 Date:9/14/20 Time: 11.30
Cross section drawing:	
west - +	Hay Field 15-95
Test Ext	0HUM 112"
OTTOM	
<u>OHWM</u>	
GPS point: <u>ID 7-8</u>	
Indicators:  ☐ Change in average sediment texture ☐ Change in vegetation species ☐ Change in vegetation cover	Break in bank slope Other: Other:
Comments:  Charnel, zed I scow, bed + ban, 60% veg above Low Flow channel on E	Kounder out bank on west side. East side within other
Floodplain unit:	☐ Active Floodplain ☐ Low Terrace
GPS point: ID 9	
Characteristics of the floodplain unit:  Average sediment texture: Very Fine (1) +  Total veg cover: % Tree: % Si  Community successional stage:	
NA Early (herbaceous & seedlings)	<ul><li>Mid (herbaceous, shrubs, saplings)</li><li>Late (herbaceous, shrubs, mature trees)</li></ul>
Indicators:  Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	☐ Soil development ☐ Surface relief ☐ Other: ☐ Other: ☐ Other:
Comments	M. suitace water present Q time
36t Low flow channel	

Project ID:	Cross section ID: 45	4 Date: 1/19/20	Time: 12:00/M
Cross section drawin		FP	
North South	RLG LE	channel agfield	
OHWM	**************************************		Annessed and the state of the s
GPS point: <u>ID 10 -1</u>	'/		
Indicators:  Change in aver Change in vege Change in vege	•	Break in bank slope Other: Other:	
Comments: 69" OHWM other than in LF char obvious slope bree	mel, 100% veg cover Kin brak slope, t	(169), stay banks on hannel where we will an	Lother Arg
Name of the second seco			
Floodplain unit: 5	Low-Flow Channel x 2	Active Floodplain	Low Terrace
GPS point: 1010			
Community successions  NA	re: <u>very Fire sil+</u> % Tree:% Shru	b:% Herb: 60 %  Mid (herbaceous, shrubs, sap Late (herbaceous, shrubs, ma	<i>O</i> ,
Indicators:  Mudcracks Ripples Drift and/or del Presence of bed Benches		☐ Soil development ☐ Surface relief ☐ Other: ☐ Other: ☐ Other:	************
Comments:			
12 Low flow than Vigorously in the	nels ul water 12 mels	esent, ~ 20 hilds, veg 9	lowing less

## Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: Thorners k to Moscow	Date: 9/14/20	Time: 12:30 PM			
Project Number:	Town:	State: ID			
Stream: Tib P	Photo begin file#:	Photo end file#:			
Investigator(s): 5200b Taylo	n . n . n . a . a . a . a . a . a . a .	line Pulallel to US-95			
Y N Do normal circumstances exist on the site?	stn 60-90				
Y / N Ls the site significantly disturbed?	Projection: JD State Ph. Coordinates: Sec Ma	Datum: NAD 83			
Potential anthropogenic influences on the channel syst	em:				
irrigation and HWY runnoft					
,					
Brief site description: Trib P parralels Us-98 on west side at Pitchline w/ Hwy fill stage on one side	the southern and	of a liquerent. Huml Fields / rural			
185, denies on the bill					
Checklist of resources (if available):  Aerial photography  Stream gag	re data				
Marial photography   Stream gag   Stream gag   Gage num					
Topographic maps Period of r					
	y of recent effective disch	arges			
1	s of flood frequency analy	. =			
	ecent shift-adjusted rating				
	neights for 2-, 5-, 10-, and	25-year events and the			
	ecent event exceeding a 5	-year event			
Global positioning system (GPS)					
Other studies					
Hydrogeomorphic F	Floodplain Units				
, Active Floodplain	Low Terrace				
		<b>(</b>			
Low-Flow Channels	OHWM Paleo Cha	nnel			
Procedure for identifying and characterizing the flood	lplain units to assist in ic	dentifying the OHWM:			
1. Walk the channel and floodplain within the study area	to get an impression of th	e geomorphology and			
vegetation present at the site.					
2. Select a representative cross section across the channel.		- 1			
3. Determine a point on the cross section that is character	ristic of one of the hydrog	eomorphic floodplain units.			
a) Record the floodplain unit and GPS position.	4 \ 1 .4				
b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the					
floodplain unit.					
<ul><li>c) Identify any indicators present at the location.</li><li>4. Repeat for other points in different hydrogeomorphic f</li></ul>	loodolain units across the	cross section			
5. Identify the OHWM and record the indicators. Record					
Mapping on aerial photograph	GPS				
Digitized on computer	Other:				
L División de company	J				

Project ID: T2M Cross section ID: 65	5 Date: 9/14/20 Time: 12-30
Cross section drawing:	A 11 TO
	Field US-95
wast East	OHVM
<u>OHWM</u>	
GPS point: <u>ID 12 - 13</u>	
Indicators:  Change in average sediment texture  Change in vegetation species  Change in vegetation cover	Break in bank slope Other: Other:
Comments: 26" OHWM Scorl w/ bed and bank, 10-20%	veg word, No sufface vater present
Flood plain unit:	Active Floodplain
GPS point: None	
Characteristics of the floodplain unit:	. 4 <u>8 -</u>
Average sediment texture: Median to course  Total veg cover: % Tree: % Shrub	5 5: % Herb: /02% K=9
Community successional stage:	
☐ NA☐ Early (herbaceous & seedlings)	Mid (herbaceous, shrubs, saplings)  Late (herbaceous, shrubs, mature trees)
Indicators:  Mudcracks Ripples Drift and/or debris Presence of bed and bank Benches	Soil development Surface relief Other: Other: Other:
Comments:	

Project ID: 12M Cross section ID:	6 Date: 7/19/20 Time: 1:00
Cross section drawing:	Field Active FP US-95 OHWM
OHWM	
<u>OHWM</u>	
GPS point: <u>ID 14-15</u>	
Indicators:  Change in average sediment texture  Change in vegetation species  Change in vegetation cover	Break in bank slope  Other: Other:
Comments: 20% vig cover, Reg., sediment con	rse sand wygravel. No surface water
OHWM 46"	
Floodplain unit:	Active Floodplain
GPS point: 10 16	
Characteristics of the floodplain unit:  Average sediment texture: Very course sond  Total veg cover: % Tree: % Shr  Community successional stage:  NA Early (herbaceous & seedlings)	rub:% Herb: /00 % Rcg  Mid (herbaceous, shrubs, saplings)  Late (herbaceous, shrubs, mature trees)
Indicators:  ☐ Mudcracks ☐ Ripples ☐ Drift and/or debris ☑ Presence of bed and bank ☑ Benches  Comments:	Soil development Surface relief Other: Other: Other:

Cross section drawing:	
	V3-95
	Field
	OHWM
Vest East	
<del></del>	
DHWM	
GPS point: <u>ID 17 - 18</u>	
ers point: 10 1/-18	
Indicators:	Mr. I. I. I. I.
<ul><li>Change in average sediment texture</li><li>Change in vegetation species</li></ul>	Break in bank slope Other:
Change in vegetation cover	Other:
Comments:	
Incised ditch. No bultac	e water channel of scoul,
bel and bank	
7HWM 29"	
·	
Floodplain unit:	Active Floodplain Low Terrace
GPS point:	
Characteristics of the floodplain unit:	
Average sediment texture:  Total veg cover: % Tree: %	Shrub: % Herb: %
Community successional stage:	
NA	Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
ndicators:	
Mudcracks	Soil development
☐ Ripples ☐ Drift and/or debris	Surface relief
Presence of bed and bank	Other:
tilianed process	Other:
1   Benches	
Benches Comments:	

Project ID: 72 M	Cross section ID: 4	S 8 Date: 9/14/20 Time: 2:10 PN
Cross section drawin	<b>g</b> :	•/
	Action FP	
•		
	offun	
<u>OHWM</u>		
GPS point: <u>ID</u> /9 -	. 20	
T 1.		
Indicators:	age sediment texture	Break in bank slope
Change in vege		Other:
Change in vege		Other:
Comments:		1 + 2 + 4 + 4
_ ′	hed thank, su	stace water Prosent. Just upstran
of wetland		
OHEM 241		
Floodplain unit:	☐ Low-Flow Channel	Active Floodplain
CDS noints TO 21-	.77 .	
GPS point: <u>ID 2/-</u>		
Characteristics of the fl	oodplain unit:	
Average sediment textu	ire: <u>fine 5,1+</u>	ub:% Herb: <u>]                                   </u>
Community succession	_% Tree:% Shr	ub:% Herb: <u>100</u> %
NA	ar stage.	Mid (herbaceous, shrubs, saplings)
1 1	ous & seedlings)	Late (herbaceous, shrubs, mature trees)
W		
Indicators:  Mudcracks		Soil development
Ripples		Surface relief
☐ Drift and/or de		Other:
Presence of be	d and bank	Other:
Benches		Other:
Comments:		and the state of the
Natrow swal	e through agr	sevinual tiess with channel
running through	renter	resultival AEUS with channel

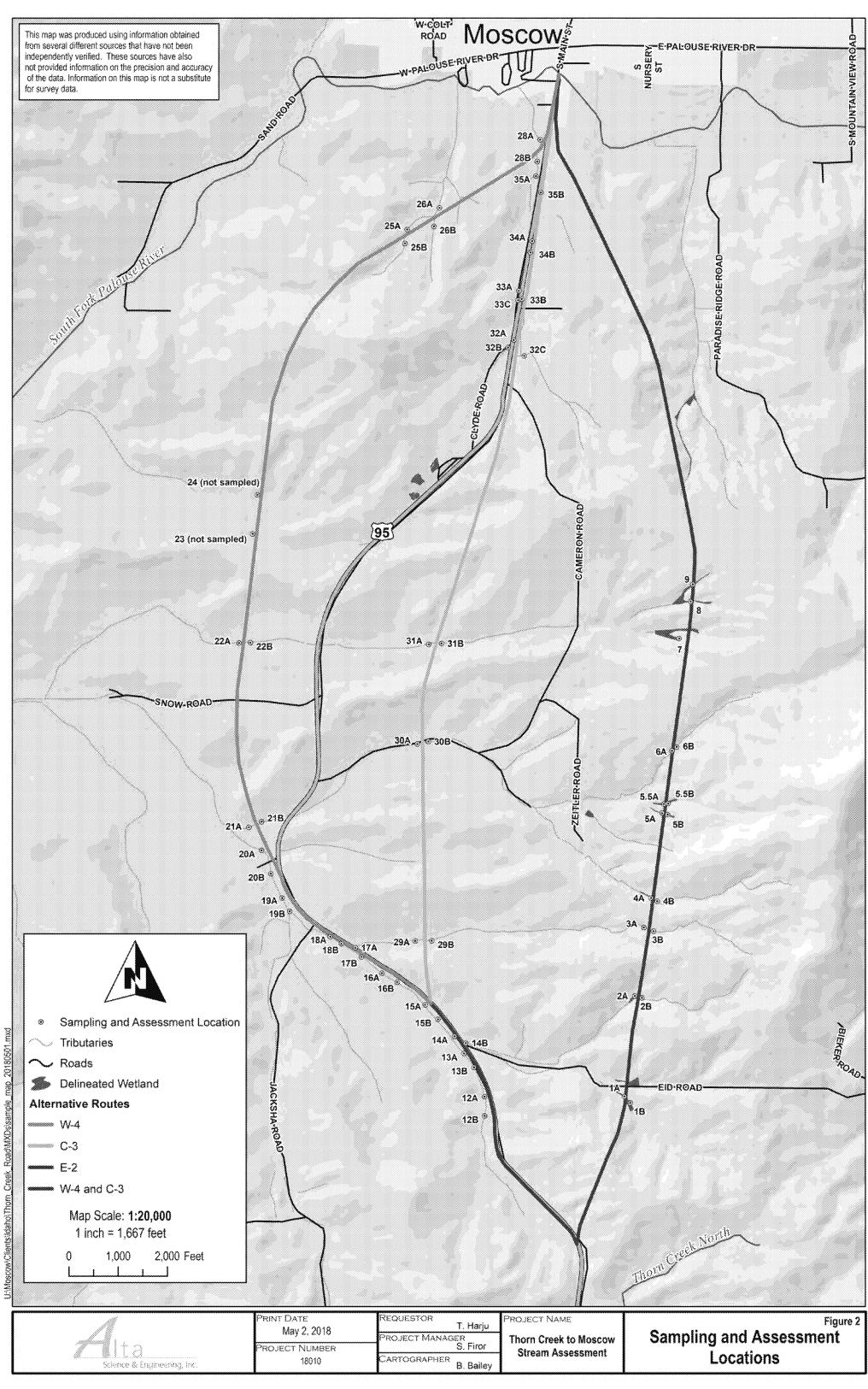
Project ID: 72M	Cross section ID: ८	59	Date: 9/14/20	Time: 2:20 PM
Cross section drawing			, ,,	
		Fiel	l e	OHWM
<u>OHWM</u>				
GPS point: <u>ID</u> 23-	24			
Indicators:  Change in avera Change in veget Change in veget	<u> </u>	① Other:	in bank slope	
Comments: Narrow incircal litter. No surface OHWM 23		Hay 5.	houlder, Ful	1 of Reg
Floodplain unit:	Low-Flow Channel	☐ Active	: Floodplain	Low Terrace
GPS point:				
Characteristics of the flo Average sediment texture Total veg cover: Community successional NA Early (herbaceon	e:% Shr % Tree:% Shr stage:	☐ Mid(I	Herb:% nerbaceous, shrubs, sap nerbaceous, shrubs, ma	
Indicators:  Mudcracks Ripples Drift and/or deb Presence of bed Benches		Surface Other:	evelopment ee relief	<del></del>
Comments:				

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project: The Course K to Massau	Date: 9/14/20 Time: 3:00 PM				
Project Number:	Town: State: ID				
Stream: Trib A A	Photo begin file#: Photo end file#:				
Investigator(s): Sacob Taylol	Location Details: Nend of Project				
Y N Do normal circumstances exist on the site?	(m 273 -284				
Y ☐ / N ☑ Is the site significantly disturbed?	Projection: TO state Plane & Datum: NAD 83 Coordinates: See Map				
Potential anthropogenic influences on the channel system of agricultural field, may a Area surrounding dealings. It had to be a surrounding dealings.	em:				
Drainage in agricultural field, may	o intlicaced by illightied				
Area surrounding deminage to saly to had	<i>C</i>				
Rejef cite description	• · · · · · · · · · · · · · · · · · · ·				
Brief site description: Nasson Oran/Brainage through fix Scaps upstream in median through fix	Q just downstream at me thered				
Checklist of resources (if available):					
Aerial photography Stream gag	ge data				
Dates: Gage num					
Topographic maps Period of a					
	y of recent effective discharges				
	s of flood frequency analysis				
1	recent shift-adjusted rating				
1 .	heights for 2-, 5-, 10-, and 25-year events and the				
	recent event exceeding a 5-year event				
Global positioning system (GPS)					
Other studies					
Hydrogeomorphic I	Floodplain Units				
Active Floodplain	Low Terrace				
	<b>→  %</b>				
<u> </u>					
Low-Flow Channels	OHWM Paleo Channel				
Procedure for identifying and characterizing the floor	Iplain units to assist in identifying the OHWM:				
1. Walk the channel and floodplain within the study area	to get an impression of the geomorphology and				
vegetation present at the site.					
2. Select a representative cross section across the channel.					
3. Determine a point on the cross section that is character	istic of one of the hydrogeomorphic floodplain units.				
a) Record the floodplain unit and GPS position.	calons give) and the property in the property is a first				
b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the					
floodplain unit.					
c) Identify any indicators present at the location.	landulain vaita assass the assass street				
<ul> <li>4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.</li> <li>5. Identify the OHWM and record the indicators. Record the OHWM position via:</li> </ul>					
Mapping on aerial photograph	the OHWM position via: ↓ GPS				
Digitized on computer	Other:				

Project ID: TLM	Cross section ID: 4	-510 1	Date: 9/14/26	Time: 3 100.
Cross section drawin	<b>g</b> :		,	
	1 Februare 1		East	- west
OHWM  GPS point: ID 25-	7.6			
Indicators:	age sediment texture	Break in Other: Other:	bank slope	
Comments: Obvious break in Surface water p	slope w/ bed	and frank at Ion Ale	in chancel	/
Floodplain unit: 5	Low-Flow Channel	☐ Active F	oodplain	Low Terrace
Characteristics of the fle Average sediment textu	% Tree:% Shi il stage:	☐ Mid (her	Herb: <u>5</u> % baceous, shrubs, sap baceous, shrubs, ma	
Indicators:    Mudcracks   Ripples   Drift and/or de   Presence of bed   Benches	l and bank	Other:	•	

Project ID: 77 Cross section ID: a	CS 11 Date: 9/14/20 Time: 3:30 P.
Cross section drawing:	
	and the second s
	fast west
OHUM	$\leftarrow$ $\rightarrow$
0 17 000	
<u>OHWM</u>	
GPS point: <u>I 0 27 – 28</u>	
Indicators:	
Change in average sediment texture	Break in bank slope
Change in vegetation species	Other:
☐ Change in vegetation cover	Other:
Comments:	4.0 01 6
Obvious brisk in slope, the	ine of scave, bed and hand
Upstran of vetland. No s	suffee water
OHWM 24"	
0 14 W PC 2. "1	
Floodplain unit:	Active Floodplain
Floodplain unit.	☐ Active Floodplain ☐ Low Terrace
GPS point:	
-	
Characteristics of the floodplain unit:	
Average sediment texture:  Total veg cover: % Tree: % S	
Community successional stage:	111uo% Reio%
NA	Mid (herbaceous, shrubs, saplings)
Early (herbaceous & seedlings)	Late (herbaceous, shrubs, mature trees)
Indicators:	Call de adams d
Mudcracks	Soil development
☐ Ripples ☐ Drift and/or debris	Surface relief
Presence of bed and bank	Other: Other:
Benches	Other:
Comments:	
Comments.	



en 11	Date	Time		Average Wetted	Min Bank	Max Bank	
Site Name Max Potential	Sampled	Sampled	Flow Duration	Width (ft)	Height (nt)	Height (ft)	Notes
Score	2/20/2010	0.40	la tama itta aa	37.0	0.5	4.0	
01-A 01-B	3/30/2018	8:40	Intermittent	27.0 7.0	0.5	4.9	No. and the same
	3/30/2018	8:55	Ephemeral		8	4.2	Very small stream.
02-A	3/30/2018	10:32	Intermittent	1.6	0.4	3	Cow Parsnip (FACW), So<10%
02-B	3/30/2018	10:45	Ephemeral*	2.6	0.4	1.8	Cow Parsnip (FACW), So<10%
	1						Reach located in shallow canyon and is congested with boulders and hawthorne and birch trees. RCG everywhere but a good mix of
03-A	3/30/2018	11:25	Intermittent	3.2	0.3	1.7	other plants as well, especially cow parsnip. Hawthorne density caused upstream GPS point to be taken on top of bank.
							Reach located in a shallow canyon between cultivated fields. Channel is congested with medium sized boulders, with cobble along the
							bed. Channel is steep and fast moving with several steps. Woody debris along reach as well. Canyon walls covered with RCG and
03-B	3/30/2018	11:35	Intermittent	3.7	0.3	0.6	hawthorne trees. Stream diverges at the upstream portion of reach and converges again at the middle of the reach.
							Small groups of choke cherry bushes along left bank. Channel is relatively flat, but a head cut occurs in the downstream portion. Very
04-A	3/30/2018	11:55	Ephemeral	4.7	0	1.6	small stream.
							Reach is a wide floodplain covered with RCG and hawthorne trees. Wetted area goes throughout floodplain. Some braiding under
04-B	3/30/2018	12:05	Intermittent	27.7	l o	l o	grass is apparent.
05-A	3/30/2018	12:40	Intermittent	1,4	0	0.7	A pond is located just downstream. Channel is narrow and shallow with small meanders and grass bergs.
							Stream is located in a narrow flood plain between two cultivated fields. Channel is narrow but shallow. Channel bed is covered with
05-B	3/30/2018	12:48	Intermittent	3.3	0	0.2	algae and has severl short steps.
0,5 0	3, 30, 2010	22.70	***************************************	3,3	<u> </u>	0.2	Seems to be a narrow flood plain. Water is shallow and spread out in places. A large patch of dead water extends from the upstream
05.5-A	3/30/2018	13:00	Intermittent	6,4	0	0.6	portion. Very grassy. No FACW or OBL
05.5-A	3/30/2018	13:10	Intermittent	3.9	0	0.0	portion, very grassy, no factor of Ode
<b>U</b> J.J-0	3/30/2018	13.10	miterimitem	3.3	U	0.9	Death is bested in a week, one just south of a sultimated field. Death has large grounders and is in a large (Clabora, Asso is apprected
05.4	2/20/2040	40.05				1.2	Reach is located in a woody area just south of a cultivated field. Reach has large meanders and is in a large 'S' shape. Area is congested
06-A	3/30/2018	13:35	Intermittent	4.3	0.2	1.2	with hawthornes. Area outside is a grassy meadow.
	1						Reach is located in a meadow area and is in the middle of a dense tree group. Flow is medium speed and consistant the entire reach.
06-B	3/30/2018	13:41	Intermittent	5.2	0.3	1	Lots of woody debris.
							Stream is located in a long meadow between cultivated fields. Stream is very shallow with a gently flow. Banks are congested with
7	3/30/2018	14:15	Ephemeral	2.2	0.1	0.6	RCG. A small diver/convergence in upstream end.
8	3/30/2018	14:30	Ephemeral	1.3	0.1	0.5	Banks are muddy and unstable. Three drainages converge at upstream end. Very small stream.
9	3/30/2018	14:57	Intermittent	2.4	0.1	0.4	

### Appendix 1 – REQUEST FOR CORPS JURISDICTIONAL DETERMINATION (JD)

To: Walla Walla District

•	I am requesting a JD on Property located at: <u>US-95 south of Moscow, ID</u> (Street Address)
Cit	y/Township/Parish: Moscow County: Latah State: Idaho
Acı	reage of Parcel/Review Area for JD: ~208 (total acres od cut/fill limits)
Leg	gal: <u>T39N R05W Sections 19, 20, 29, and 32; T38N R05W Sections 5, 7, 8, 17, and 18</u>
Lat	titude (decimal degrees): 46.672622° Longitude (decimal degrees):-116.997265°
(Fo	or linear projects, please include the center point of the proposed alignment.)
•	Please attach a survey/plat map and vicinity map identifying location and review area for the JD.
•	I currently own this property I plan to purchase this propertyX_ I am an agent/consultant acting on behalf of the requestor.  Reason for request (check as many as applicable) I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
	<ul> <li>X_ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.</li> <li> I intend to construct/develop a project or perform activities in navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.</li> <li> A Corps JD is required in order to obtain my local/state authorization.</li> <li> I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.</li> <li> I believe that the site may be comprised entirely of dry land.</li> <li> Other:</li> </ul>

•	Type of determination being requested:
	I am requesting an approved JD.
	_X_ I am requesting a preliminary JD.
	I am requesting a "no permit required" letter as I believe my proposed activity is not
	regulated.
	I am unclear as to which JD I would like to request and require additional information to
	inform my decision.

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

Typed or printed name: Michelle Anderson

Company name: Anderson Environmental Consulting, LLC

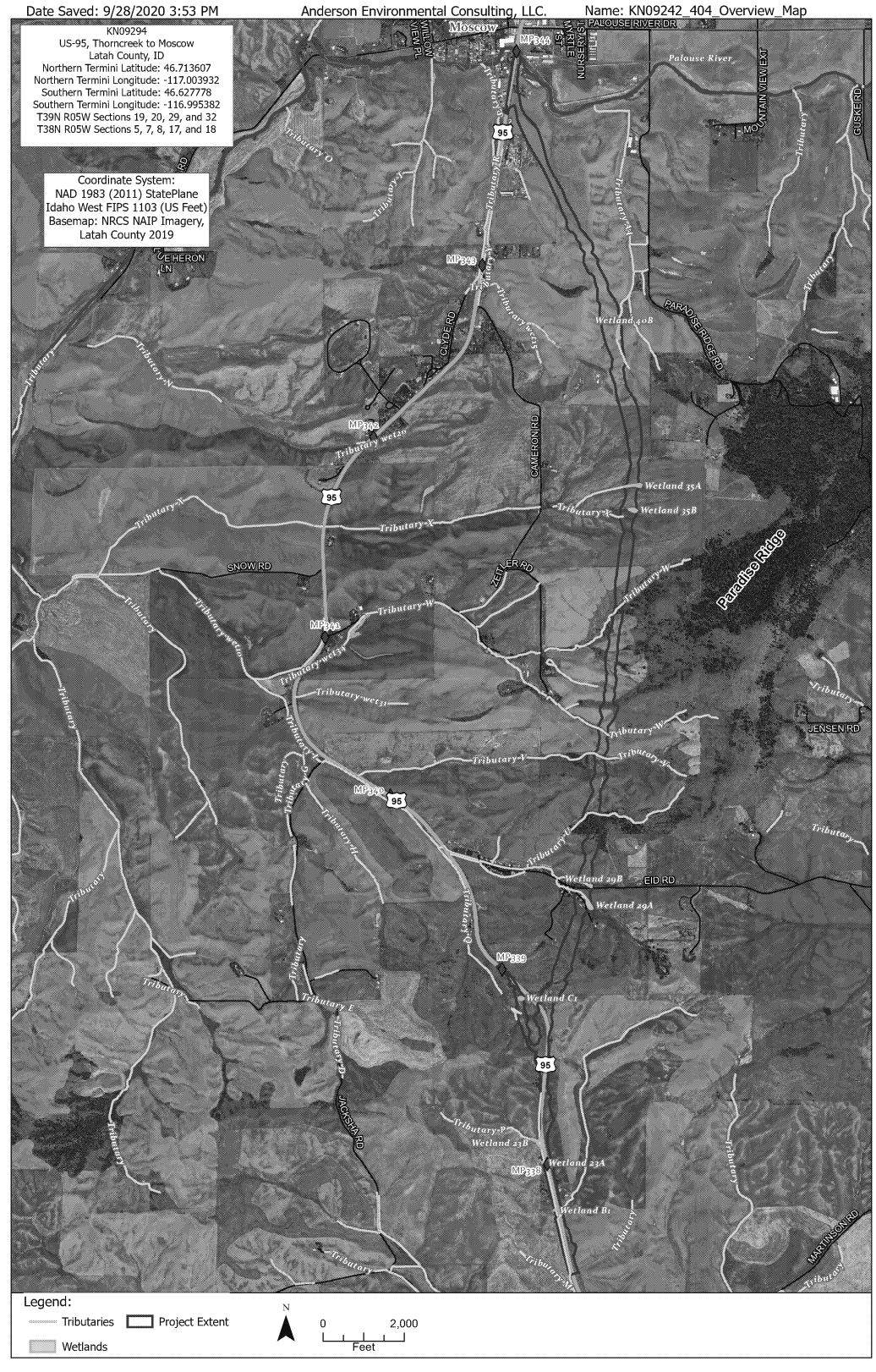
Address: 707 N. Cedar St, ste 1B Spokane, WA 99201\_\_

Daytime phone no.: <u>509-467-2011</u> Email address: <u>MCA@aec-enviro.com</u>

\*Authorities: River and Harbors Act, Section 10, 33 USC 403, Clean Water Act, Section 404, 33 USC 1344, Marine Protection Research and Sanctuaries Act, Section 103, 33 USC 1413, Regulatory Program of the U.S. Army Corps of Engineers, Final Rule for 33 CFR Parts 320-332. Principle Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website.

**Disclosure**: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.



### PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

### BACKGROUND INFORMATION

### A. REPORT COMPLETION DATE FOR (PJD):

March 9, 2021

### **B. NAME AND ADDRESS OF PERSON REQUESTING PJD:**

Idaho Transportation Department, District 2 Post Office Box 837 Lewiston, ID 83843

### C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

CENWW-RD-BOI, ITD US-95 Thorn Creek to Moscow (KN09294), NWW-2004-0600046

# D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE ATTACHED TABLE BELOW TO DOCUMENT MULTIPLE RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: ID County/parish/borough: Latah County City: Moscow Center coordinates of review area (lat/long in degree decimal format): Lat. 46.678760°, Long. -116.993471°

Universal Transverse Mercator:

Name of nearest waterbody: Thorn Creek

## E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date: March 9, 2021

☑ Field Determination. Date(s): May 21, 2019; July 30, 2019; August 25-26, 2020;

## TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH 'MAY BE' SUBJECT TO REGULATORY JURISDICTION.

Site name	Latitude	Longitude	Estimated	Type of	Geographic
	(degrees,	(degrees,	amount of	aquatic	authority to which
	minutes,	minutes,	aquatic	resource	the aquatic
	seconds)	seconds)	resource in	(i.e.,	resource "may be"
			review area	wetland vs	subject (i.e.,
			(acreage and	non-	Section 404 or
			linear feet if	wetland	Section 10/404)
			applicable)	waters)	
			0.174 acres		
Thorn			/1574 linear	Non-	
Creek	46.633440°	-116.999251°	feet	wetland	Section 404

<b></b>	T	T	0.475		
			0.175 acres	<b>.</b> .	
Tributary P	40.0000040	447.0040050	/3065 linear	Non-	0 " 101
	46.639634°	-117.001305°	feet	wetland	Section 404
			0.006 acres		
Tributary Q			/150 linear	Non-	
	46.649174°	-117.003671°	feet	wetland	Section 404
Tributary U			0.042 acres		
(Station			/376 linear	Non-	
138-140)	46.657246°	-116.997539°	feet	wetland	Section 404
Tributary U			0.059 acres		
(Station			/318 linear	Non-	
142-143)	46.657941°	-116.997387°	feet	wetland	Section 404
Tributary U			0.029 acres		
(Station			/611 linear	Non-	
158-160)	46.662648°	-116.996353°	feet	wetland	Section 404
100 100)	10.002040	110.00000	0.025 acres	Wolland	0000011 404
Tributon/ \/			/317 linear	Non-	
Tributary V	46 6664520	-116.995621°			Continu 404
T-3410/	46.666453°	-110.993021	feet	wetland	Section 404
Tributary W			0.117 acres	A 1	
(Station	40.0004700	440.0050570	/315 linear	Non-	0 (1 404
179-181)	46.668179°	-116.995357°	feet	wetland	Section 404
Tributary W			0.043 acres		
(Station			/395 linear	Non-	
209-212)	46.676522°	-116.993860°	feet	wetland	Section 404
			0.005 acres		
Tributary X			/102 linear	Non-	
	46.682657°	-116.993558°	feet	wetland	Section 404
			0.055 acres		
Tributary			/1110 linear	Non-	
AA ´	46.694491°	-116.994020°	feet	wetland	Section 404
Wetland B1	46.635841°	-117.000006°	0.01 acres	Wetland	Section 404
Wetland					
23A	46.639039°	-117.001100°	0.011 acres	Wetland	Section 404
Wetland			3.0		
23B	46.640378°	-117.001540°	0.413 acres	Wetland	Section 404
Wetland C1	46.650117°	-117.001340 -117.003288°	0.413 acres 0.098 acres	Wetland	Section 404
	40.000117	-117.003200	0.030 acres	vveuariu	36011011 404
Wetland	40.0504400	440 0007400	0.000	1 A / _ 4JI	0
29A	46.656419°	-116.996719°	0.323 acres	Wetland	Section 404
Wetland	40.0570050	440.000=000	0.044	1011	0 " 101
29B	46.657695°	-116.996568°	0.041 acres	Wetland	Section 404
Wetland					
35A	46.683071°	-116.992286°	0.17 acres	Wetland	Section 404
Wetland					
35B	46.684786°	-116.991763°	0.177 acres	Wetland	Section 404
Wetland					
40B	46.694869°	-116.993881°	0.21 acres	Wetland	Section 404
TOD	10.00-000	110.00001	0.21 00100	VVOIGITG	0000011404

- 1. The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions: (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary: (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as is practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during that administrative appeal, it becomes necessary to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the United States and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

#### SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map: 1) Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report for Areas within the US-95 E-2 Alignment, (KN09294), dated September 22, 2020 2) Thorn Creek Road to Moscow Wetland Delineation of South Connector associated with the US-95 E-2 Alignment, (KN09294), dated September 21, 2020 3) Thorn Creek to Moscow Ordinary-High-Water-Mark Delineation, (KN09294), dated September 28, 2020 ☑ Data sheets prepared/submitted by or on behalf of PJD requestor. ☐ Office concurs with data sheets/delineation report: 1) Pages 1-75, Appendix, Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report for Areas within the US-95 E-2 Alignment, (KN09294), dated June 11, 2020 2) Appendix A, Thorn Creek Road to Moscow Wetland Delineation of South Connector associated with the US-95 E-2 Alignment, (KN09294), dated September 21, 2020 3) Pages 14-27, Thorn Creek to Moscow Ordinary-High-Water-Mark Delineation, (KN09294), dated September 28, 2020 Office does not concur with data sheets/delineation report. Rationale. ☐ Data sheets prepared by the Corps: Site visit dated, Aug 25-26, 2020: W23-1, W28-1, W29-1, W29-2, W29-3, W32-1, W32-2, W32-3, W35B-1, W35B-2, W35B-3, W40-1 Corps navigable waters' study: ☐ U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: ☑ Natural Resources Conservation Service Soil Survey. Citation: TC2M Soil Maps (1-10), dated November 10, 2020 ☑ National wetlands inventory map(s). Cite name: NWW-2004-0600046, TC2M (1-3), dated November 9, 2020 State/Local wetland inventory map(s): ☐ FEMA/FIRM maps: ☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) ☑ Photographs: 1) Pages 2, 4, 6, 8, 9, 10, 12, 13-19, 21, and 23, Thorn Creek Road to Moscow Wetland Delineation Review and Technical Report for Areas within the US-95 E-2 Alignment, (KN09294), dated September 22, 2020 2) Page 5, Thorn Creek Road to Moscow Wetland Delineation of South Connector associated with the US-95 E-2 Alignment, (KN09294), dated September 21, 2020

3) Pages 4-10, Thorn Creek to Moscow Ordinary-High-Water-Mark Delineation, (KN09294), dated September 28, 2020 Aerial (Name & Date): 1) Google Earth (June 30, 2015; August 17, 2013; July 24, 2013; August 5, 2011; June 23, 2009) 2) Digital Globe Aerial Imagery (May 29, 2019; June 11, 2019; April 25, 2020; July 26, 2020) Other (Name & Date): Previous determination(s). File no. and date of response letter: ☑ Other information (please specify): The review area may contain waters of the United States, per 33 CFR 328.1(a)(2) & 33 CFR 328.3(a)(4). Tributary AA flows to the South Fork of the Palouse River which flows to the Palouse River which flows to the Snake River. Tributary V, Tributary U, Tributary W, flow into Tributary Q which flows to Tributary I which flows to Tributary "Wet 10" which flows to the South Fork of the Palouse River which flows to the Palouse River which flows to the Snake River. Tributary X flows to Tributary

"Wet 10" which flows to the South Fork of the Palouse River which flows to the Palouse River which flows to the Snake River. The Tributary P flows to Thorn Creek which flows into Union Flat Creek which flows to the Palouse River which flows to the Snake River near RM 59.5. The Snake River is a designated navigable water under Section 10 of the Rivers and Harbors Act

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Shane Skaar, March 9, 2021
Signature and date of
Regulatory staff member
completing PJD

from RM 445.5.

Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Districts may establish time frames for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Idaho Transportation Department, D2 File Number: NWW-2004-0600046	Date: 3/9/21
Attached is:	See Section below
INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
PROFFERED PERMIT (Standard Permit or Letter of permission)	В
PERMIT DENIAL	С
APPROVED JURISDICTIONAL DETERMINATION	D
✓ PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found in Corps regulations at 33 CFR Part 331 or at <a href="http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/FederalRegulation.aspx">http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/FederalRegulation.aspx</a>

- A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.
- B: PROFFERED PERMIT: You may accept or appeal the permit
- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.
- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.
- E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTION				
REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reason or objections are addressed in the administrative record.)				
ADDITIONAL INFORMATION: The appeal is limited to a revie	w of the administrative record, the	e Corps memorandum for the		
record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However,				
you may provide additional information to clarify the location of information that is already in the administrative record.				
POINT OF CONTACT FOR QUESTIONS OR INFORMATION:				
If you have questions regarding this decision and/or the appeal process you may contact:	For questions about the appeal p	rocess, you may also contact:		
U.S. Army Corps of Engineers, Walla Walla District ATTN: Kelly Urbanek, Chief, Regulatory Division	U.S. Army Corps of Engineers, ATTN: Melinda Larsen, Regula			
720 East Park Boulevard, Suite 245 Boise, Idaho 83712	1201 NE Lloyd Blvd., Suite 400 Portland, OR 97232	* 11		
Telephone: (208) 433-4464	Telephone: (503) 808-3888			
Email: Kelly.J.Urbanek@usace.army.mil	Email: Melinda.M.Larsen@usa	ce.army.mil		
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15-day				
notice of any site investigation, and will have the opportunity to participate in all site investigations.				
	Date:	Telephone number:		
Signature of appellant or agent.				

### TRANSFER OF NATIONWIDE PERMIT

When the structures or work authorized by this Nationwide Permit, NWW-2004-0600046, US-95 Thorn Creek road to Moscow, are still in existence at the time the property is transferred. The terms and conditions of this Nationwide Permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this Nationwide Permit, the associated liabilities and compliance with the terms and conditions the transferee must sign and date below.

Name of New Owner:

Street Address:	
Mailing Address:	
City, State, Zip:	
Phone Number:	
Signature of TRANSFEREE	DATE